

# Seats

GROUP  
**41**

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## PART 41-01 General Seat Service

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Refer to the Wiring and Vacuum Diagrams Manual Form 7795P-70 for electrical schematic wiring diagrams,

vacuum schematic diagrams and the locations of wiring and vacuum harnesses and lines.

Refer to the Car Diagnosis Manual, Form FD 7962 for diagnosis procedures.

# PART 41-02 Reclining Seat Back, Headrest, Seat Belts and Shoulder Harnesses

COMPONENT INDEX Applies To Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
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A page number indicates that the item is for the vehicle listed at the head of the column.

N/A indicates that the item is not applicable to the vehicle listed.

## 1 FRONT SEAT HEADREST

### DESCRIPTION AND OPERATION

All the vehicle lines (except with bucket seats) are equipped with a single-post design headrest (Figs. 1 and 2).

The headrest has a single post with three notches which engage a spring loaded catch in the mounting bracket. The mounting bracket retains the post and guide sleeve to either a plate or a plate and rod mounting as indicated in Figs. 1 and 2. These mountings are a part of the seat back assembly.

### REMOVAL AND INSTALLATION

The headrest is removed by pulling the headrest post upward and out of

the guide sleeve and mounting bracket.

If the mounting bracket spring clip will not disengage from the lowest detent on the headrest post to allow removal (Fig. 1), insert a 12-inch length of thin flat stock into the sleeve at the front side of the post and push the spring clip out of the detent while withdrawing the headrest.

The guide sleeve is removed by pulling the sleeve out of the mounting bracket after first removing the headrest. Occasionally, it may be necessary to trip the locking tab on the guide sleeve in order to remove it from the bracket (Fig. 1). Insert a short piece of wire having a hooked end into the sleeve, hook onto the

locking tab and pull it inward.

The headrest is installed by inserting the post into the sleeve in the seat back. It can be adjusted by applying hand pressure either upward or downward to the center area of the headrest assembly.

### MOUNTING BRACKET AND CATCH ASSEMBLY

Remove the headrest and post assembly from the sleeve and remove the sleeve. Remove the seat back trim cover for access, and remove the screws that retain the mounting bracket to the mounting in the seat back.

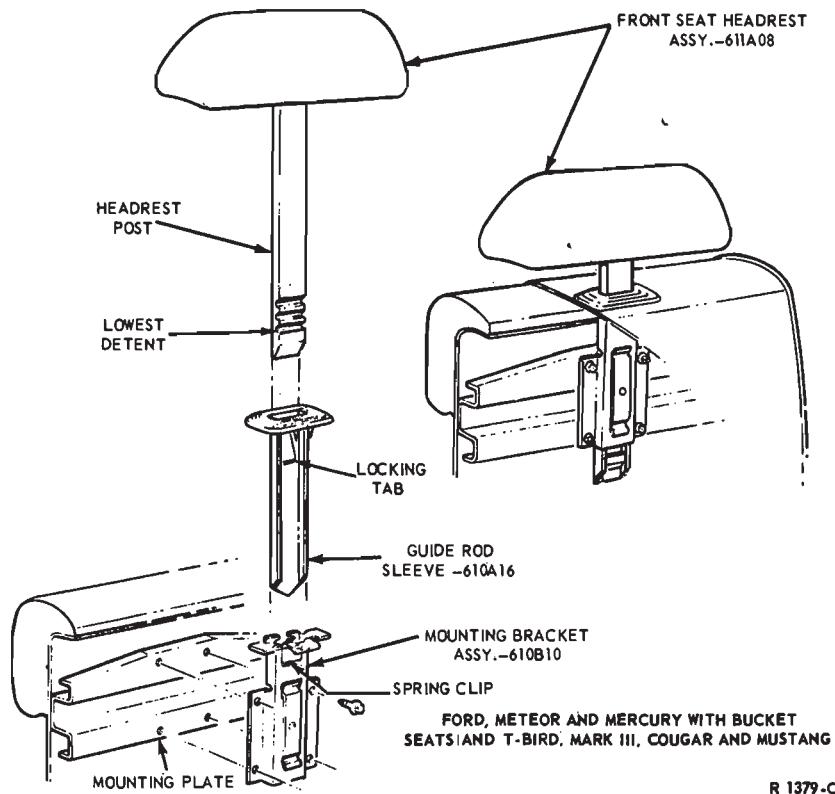


FIG. 1—Headrest—Plate Mounted

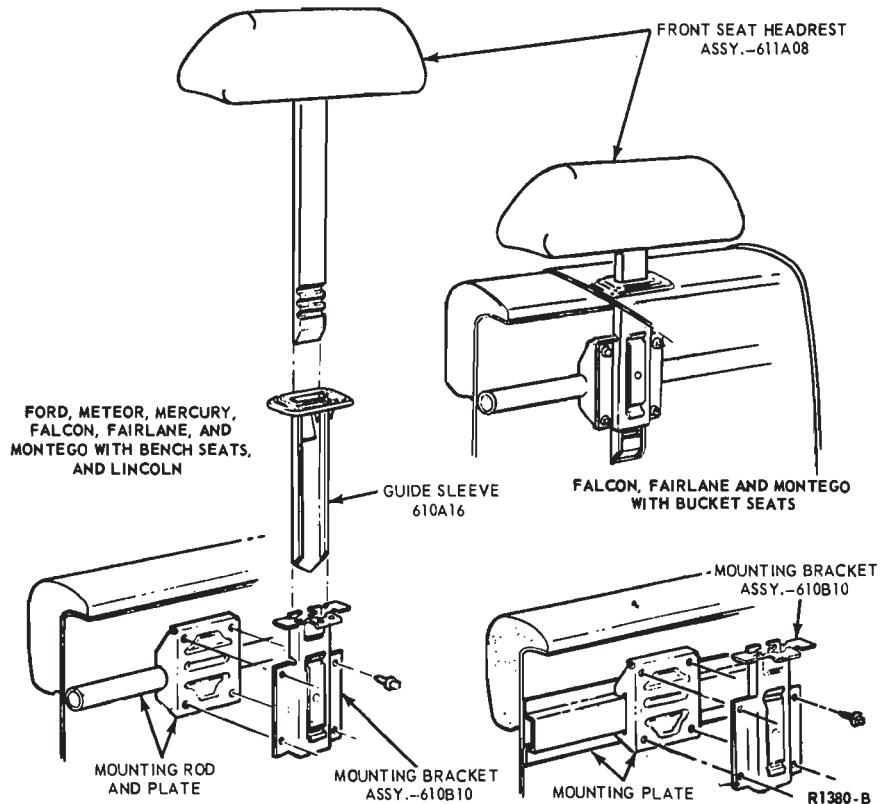


FIG. 2—Headrest—Rod and Plate Mounted

## 2 SEAT BACK MECHANISMS

### RECLINING SEAT BACK

The mechanical reclining seat back is used in Ford, Meteor, Mercury, Thunderbird, Continental Mark III and Lincoln Continental vehicles.

The reclining seat is adjusted by a latch handle on the seat cushion right side shield. To recline the seat, turn the handle and push the seat back to the desired position. Spring action will return the seat to normal position when the handle is again turned and pressure is removed from the seat back.

### MECHANICAL SEAT BACK LATCH—MAVERICK

#### REMOVAL

1. Remove the screws retaining the seat pivot cover from the seat back outer pivot.

2. From underneath the rear of the front seat, remove the hog ring retaining the center seat bracket cover to the seat cushion.

3. Remove the self-locking pins retaining the seat back to the seat cushion assembly (Fig. 3) and remove the

seat back from the vehicle.

4. Remove the ring retainer, washer, latch pawl and latch spring by sliding them off the seat back pin.

#### INSTALLATION

1. Slide the spring partially on the seat back pin (Fig. 3). Engage the latch pawl to the spring and slide on the pin. Install the washer and ring retainer.

2. Position the seat back to the vehicle and install the seat pin and self-locking pin in the cushion assembly as shown in Fig. 3.

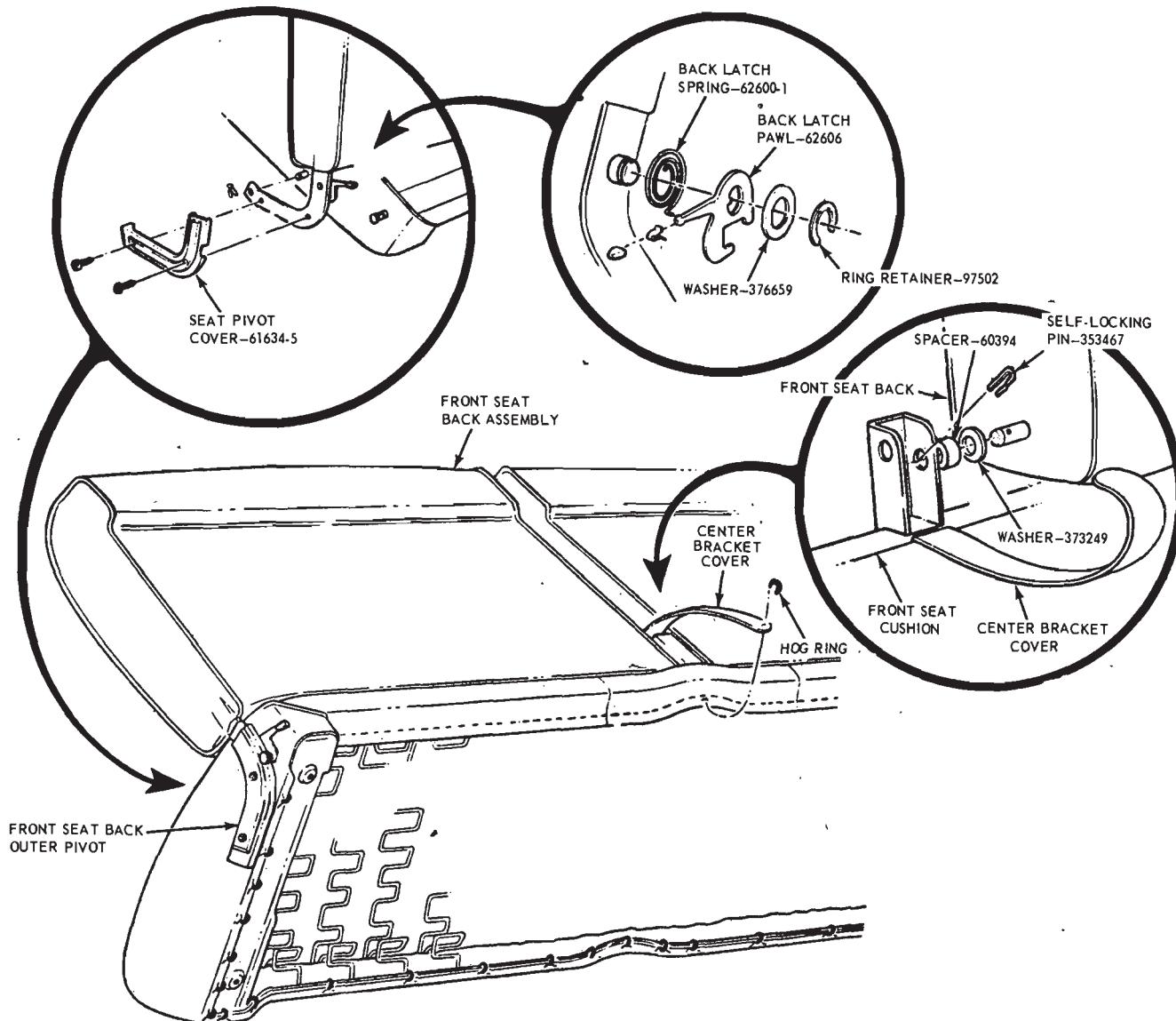
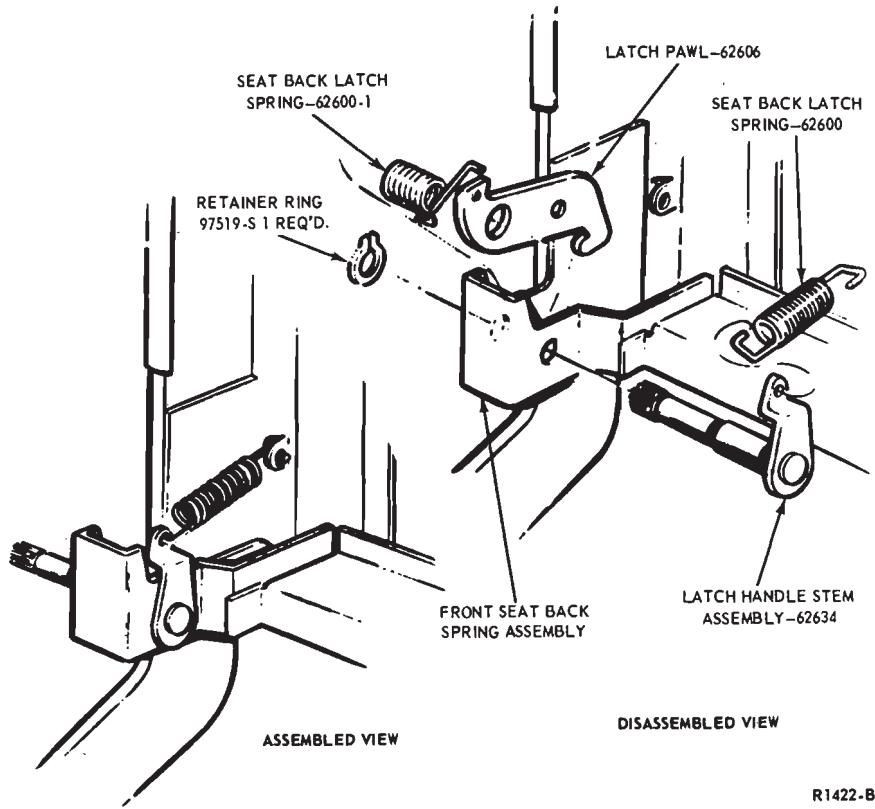


FIG. 3—Front Seat Back and Back Latch

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**FIG. 4—Seat Back Latch Installation**

3. Install the outer seat back arm to the seat cushion pin and install the self-locking pin.
4. Using a hog ring, fasten the center seat bracket cover to the cushion. Then, install the seat pivot cover.

#### MECHANICAL SEAT BACK LATCH

All folding front seats have a safety latch designed to hold the seat back in place in the event of an emergency stop or a crash situation. For rear seat passenger entry and exit, a handle on the side of the seat back releases the safety latch.

If the seat back will not latch in position or the latch mechanism will not unlock, remove the seat back trim cover far enough to inspect the latch mechanism. Then replace any broken parts and tighten any loose parts to put the latch system in proper work-

ing order (Fig. 4).

#### AUTOMATIC SEAT BACK LATCH

##### DESCRIPTION AND OPERATION

The seat back latches automatically release when either front door is opened. In each front door there is a switch connected to battery power. Opening the door closes the switch and sends power to energize a relay switch. When the relay switch is closed, it sends power to two solenoids, one mounted on each seat back (Fig. 5). The actuating plunger of the solenoid is connected to the latch pawl. When the solenoid is energized it pulls up on the pawl to release the latch. If the electric system does not function, the latch can be released manually by moving the handle.

#### SOLENOID TEST

Remove the solenoid and connect the wire lead plug to battery power. If the solenoid plunger does not move, replace the solenoid.

#### RELAY TEST

Disconnect the three wires, noting the color of the three wires at each terminal, and remove the relay. Connect battery power to the relay (positive post to the red wire terminal and negative post to the relay case). Connect a self powered test light between the other two relay terminals. If the test light does not light, replace the relay.

#### RELAY REPLACEMENT

The relay is mounted in various locations according to car line as follows: Lincoln Continental, on the brake pedal support bracket; Thunderbird and Continental Mark III, mounted along with the circuit breaker panel to a bracket on the right passenger side of the dash panel; Ford, Mercury and Meteor, on the front part of the floor near the No. 1 crossmember; Mustang and Cougar, on the right cowl inner side panel; and Fairlane and Montego, on the left cowl inner side panel.

Disconnect the battery. Disconnect the wires from the relay (noting the color and terminals), remove the mounting screws and remove the relay.

When installing the relay be sure to connect the three wires to the proper terminals as noted by color code during removal.

#### SOLENOID REPLACEMENT

Remove the seat back trim cover far enough for access. Disconnect the wires at the connector plug. Remove the clip that connects the solenoid plunger to the latch pawl, and remove the solenoid mounting nuts or screws (Fig. 5). Remove the solenoid from the seat assembly and, at the same time, disengage the plunger from the latch pawl.

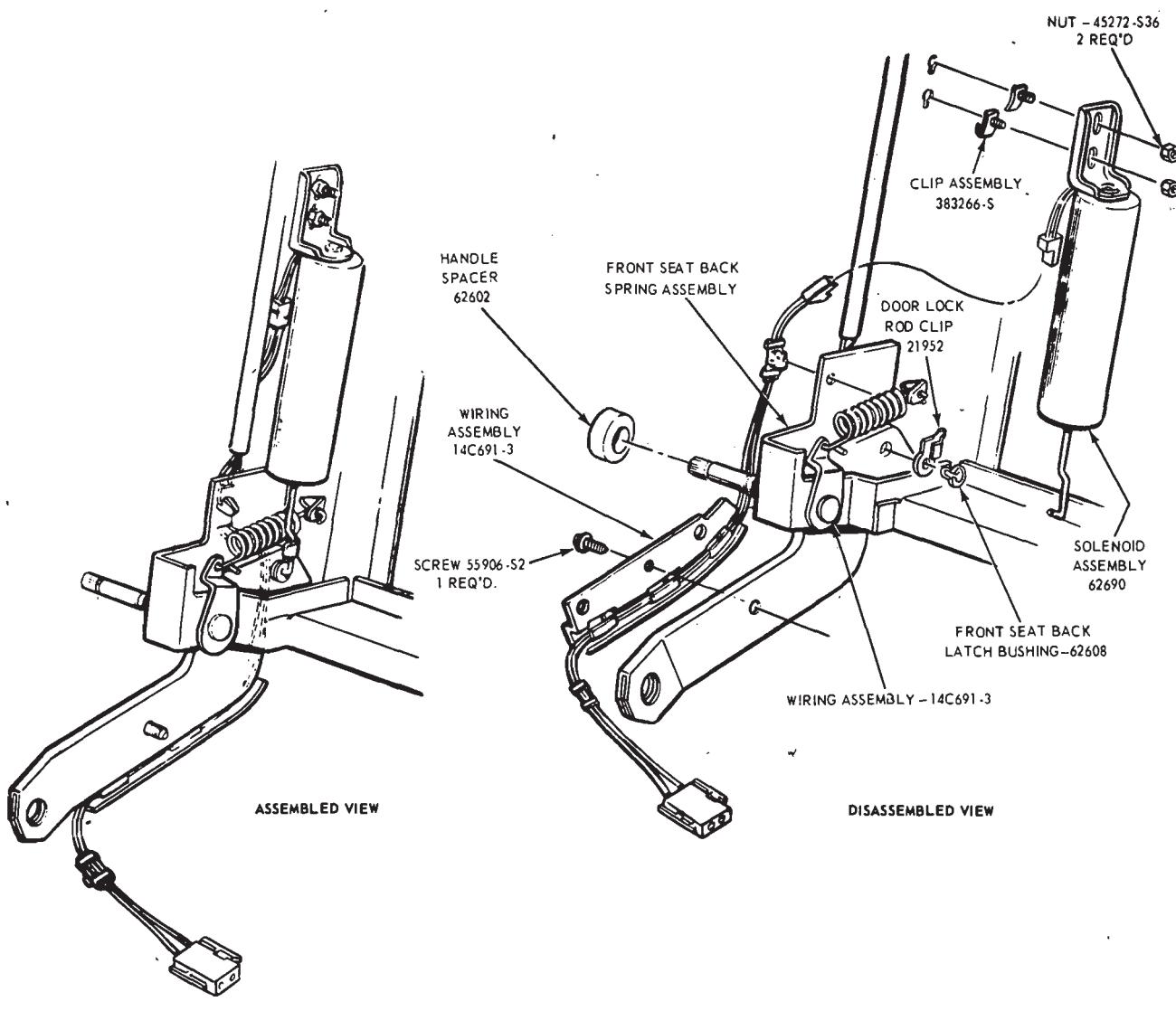


FIG. 5—Automatic Front Seat Back Latch

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### 3 SEAT BELTS AND SHOULDER HARNESSES

The seat belts and shoulder harnesses are factory installed in their proper locations. If the belts or harnesses are removed for any reason, they should be installed as shown in Figs. 6, 7, and 8. Sealer should be placed around all seat belt anchor bolt holes in the floor pan. Torque the anchor bolts to the specification in Figs. 6, 7, and 8.

#### STATE AND FEDERAL REQUIREMENTS

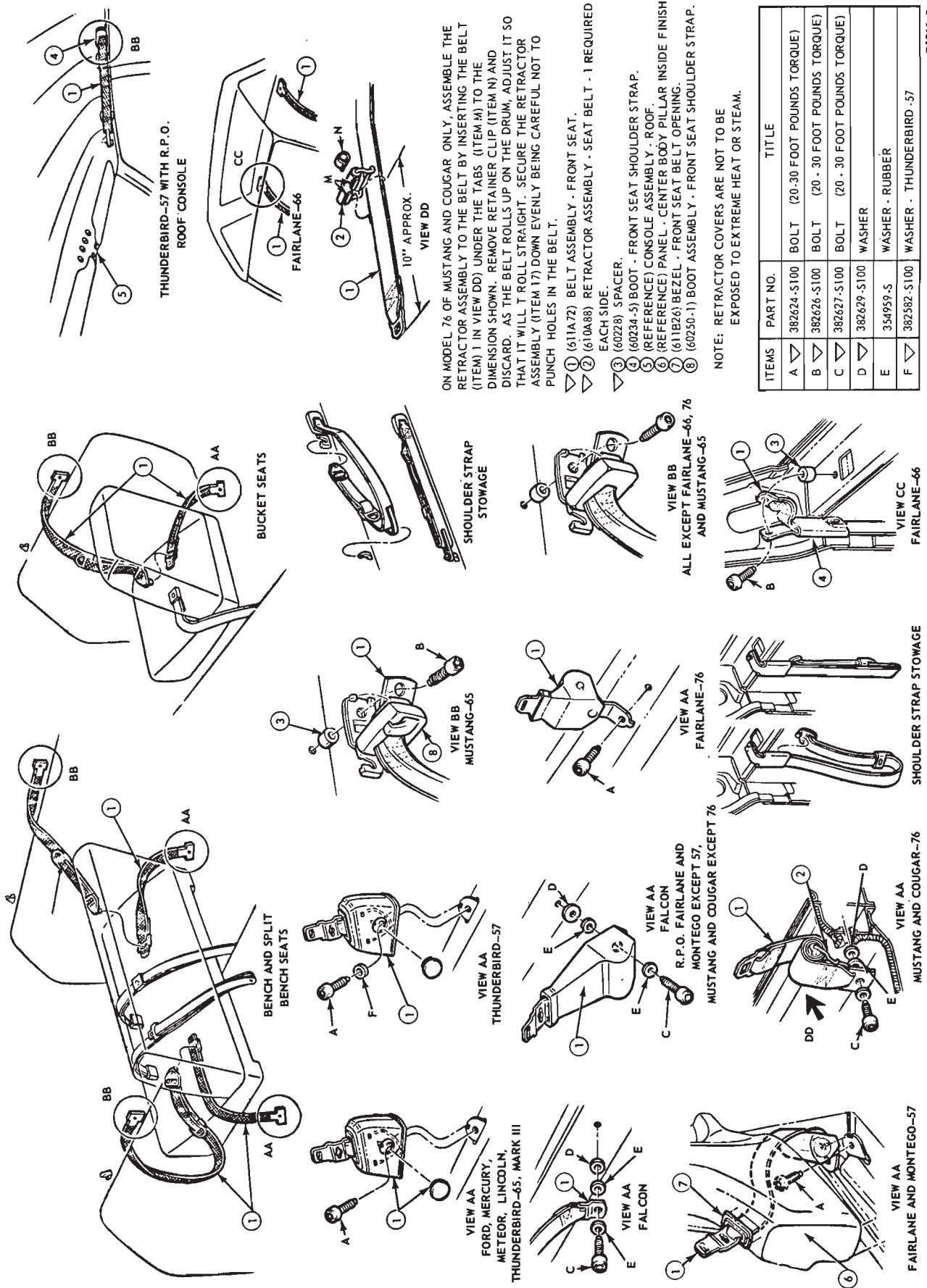
##### SEAT BELTS

1. Belt assemblies must be installed in matched vendor sets as received and must not be interchanged between vehicle models.
2. The position of inboard front seat belts at the tunnel shall be pointing in a forward direction and 45 # 15 degrees to the horizontal-all vehicle lines.

ing in a forward direction and 45 # 15 degrees to the horizontal-all vehicle lines.

3. The Lincoln retractor shall be positioned pointing in a forward direction and 45 # 15 degrees to the horizontal.

4. All other seat belt installations not specifically dimensioned (except those specifically designed to rotate) shall be positioned pointing in a for-



**FIG. 6**—Front Seat Belt and Shoulder Harness—Outboard Attachment—All Vehicle Lines

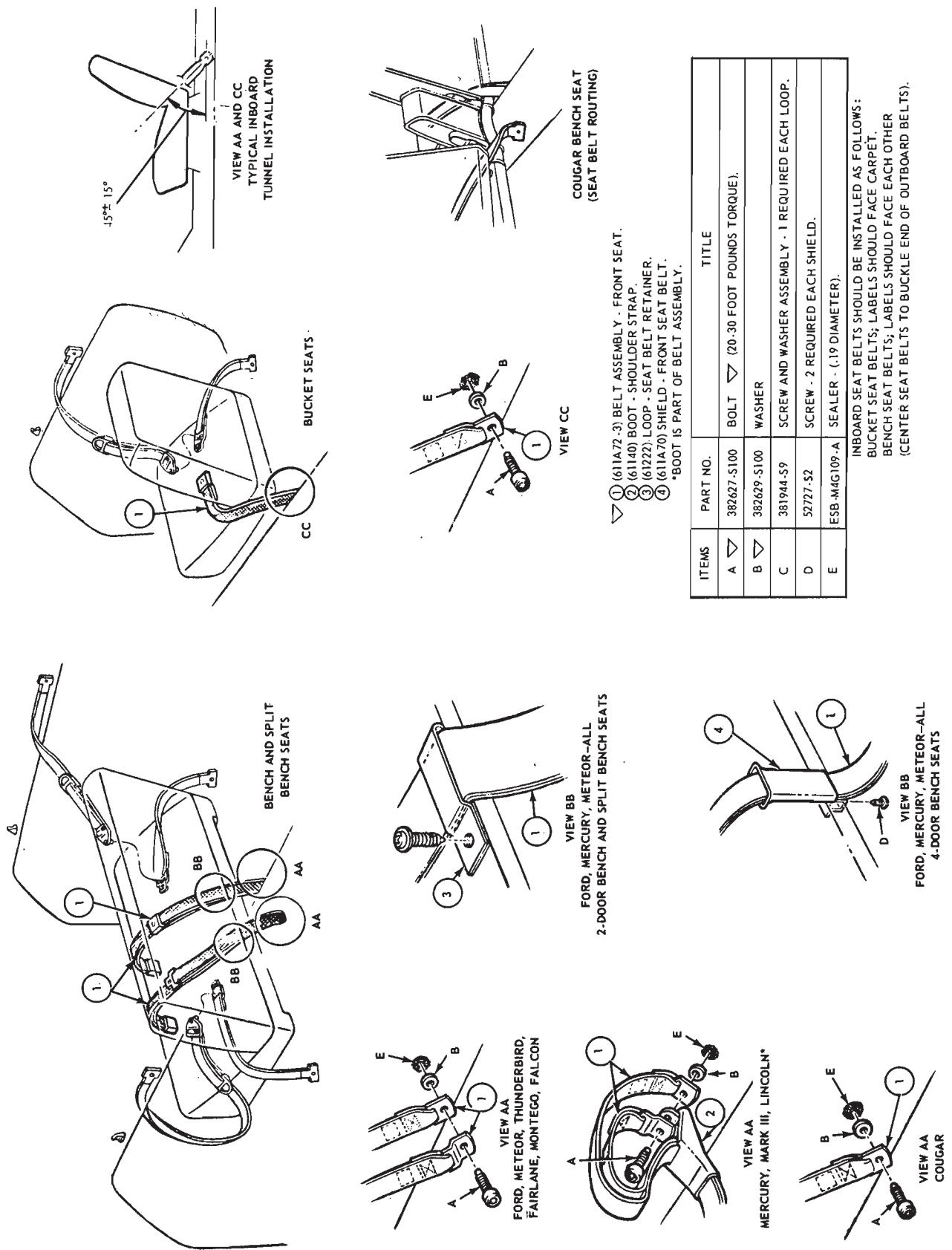


FIG. 7—Front Seat Belt and Shoulder Harness—Inboard Attachment—All Vehicle Lines

R1370-D

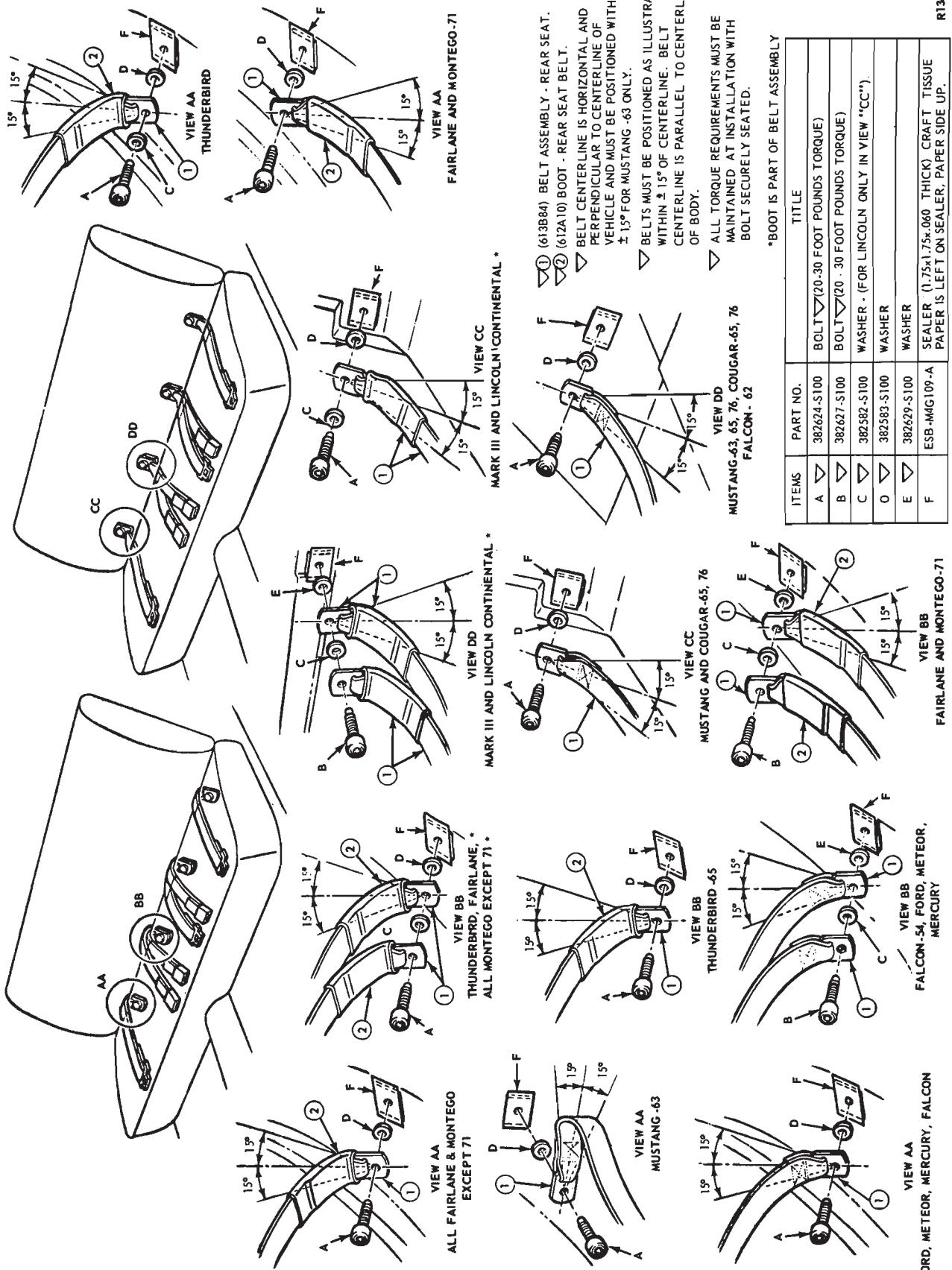


FIG. 8—Rear Seat Belt and Shoulder Harness—All Vehicle Lines

**PARTS REPLACEMENT—SEAT BELT WITH DAMAGED ANCHOR PLATE THREADS**

ORIGINAL PARTS			REPAIR PARTS		
Part No.	① Code Letter	Part Name	Part No.	① Code Letter	Part Name
382624-S100	A	Bolt— $\frac{7}{16}$ -20 x 1.38 Pan Head Tapping	382513-S36	H	Bolt— $\frac{1}{2}$ -13 x 1.20 Hex Locking
			382515-S36 ②	K	Bolt— $\frac{1}{2}$ -13 x 1.46 Hex Locking (0.50 Shoulder)
382627-S100	B	Bolt— $\frac{7}{16}$ -20 x 1.75 Pan Head Tapping (0.50 Shoulder)	382514-S36 ②	J	Bolt— $\frac{1}{2}$ -13 x 2.25 Hex Locking (0.88 Shoulder)
382628-S100	C	Bolt— $\frac{7}{16}$ -20 x 2.25 Pan Head Tapping (0.88 Shoulder)	382514-S36	J	Bolt— $\frac{1}{2}$ -13 x 2.25 Hex Locking (0.88 Shoulder)
382629-S100	—	Washer— $\frac{7}{16}$ Flat (1.30 Dia. 0.190 Thick)	382552-S100	—	Washer— $\frac{1}{2}$ Flat (1.30 Dia. 0.190 Thick)
382582-S100	—	Washer— $\frac{1}{2}$ Flat (0.25 Thick)	382553-S100	—	Washer— $\frac{1}{2}$ Flat (0.25 Thick)

① Identification letter on top of bolt head or face of spacer.

② Used for replacement on single anchorage (retractor) attachment.

③ Used for replacement on multiple belt attachments.

R1110-C

**FIG. 9—Seat Belt Replacement Chart**

ward direction parallel to the center-line of the vehicle # 15 degrees.

**SHOULDER HARNESSES AND SEAT BELTS**

If a component portion (buckle portion, retractor portion, etc.) of a seat belt or shoulder harness assembly is non-functional or damaged, the entire assembly (buckle and tongue portions) must be replaced. The replacement assembly must be installed as a matched vendor set and the identification labels on both portions must bear exactly the same code, date of manufacture and manufacturer's name. Under no circumstances are seat belt or shoulder harness components to be replaced as individual components.

**REPAIR OF SEAT BELTS AND SHOULDER HARNESS ATTACHMENTS****NO ANCHOR PLATE THREAD DAMAGE**

1. Remove the damaged bolt from

the anchor reinforcement and discard.

2. Install a new bolt with the same part number as indicated on the applicable Fig. 6, 7 or 8. Torque to 20-30 ft-lbs.

**SEAT BELT WITH DAMAGED ANCHOR PLATE THREADS**

1. Remove the broken or stripped bolt and discard.
2. Drill out the internal threads in the anchor plate with a 27/64-inch drill.
3. Re-thread the anchor plate with a 1/2-13 tap.
4. Blow out the chips.
5. Install the attachment parts in the sequence shown in Figs. 6, 7 or 8 whichever is applicable. Torque the replacement bolt to 20-30 ft-lbs. Original parts are to be replaced with the repair parts indicated in the seat belt parts replacement chart (Fig. 9). Unless specified in the chart, use original parts.
6. When repairing a multiple belt end attachment, install nut (382599-

S100) to the bolt in the tunnel area from the underside of the floor pan. Torque the nut to 20-30 ft-lbs.

**SHOULDER HARNESS WITH DAMAGED WELD-NUT ANCHOR PLATE THREADS**

1. Remove and discard the stripped or cross-threaded bolt and spacer.
2. Drill out the weld nut threads to 13/32 inch diameter.
3. Replace the original attachment hardware combinations with the required repair combinations as shown in the shoulder harness parts replacement chart (Fig. 10).
4. Re-install the belt mounting plate and torque the replacement bolt to 20-30 ft-lbs.

**CLEANING INSTRUCTIONS**

Wash the webbing with any commercial soap or detergent. Do not use carbon tetrachloride, naptha, etc.

Bleaching or redyeing of the webbing is not recommended because of this section.

## PARTS REPLACEMENT CHART—SHOULDER HARNESS WITH DAMAGED WELD NUT ANCHOR PLATE THREADS

ORIGINAL PARTS			REPAIR PARTS		
Part No.	Code Letter ①	Part Name	Part No.	Code Letter ①	Part Name
382626-S100	D	Bolt— $\frac{3}{8}$ -16 x 1.50 Pan Head Tapping	382627-S100	B	Bolt— $\frac{7}{16}$ -20 x 1.75 Pan Head Tapping
C8AB-6260228-B	D	Spacer (0.30)	382582-S100	—	Spacer (0.25)—1 Required
382626-S100	D	Bolt— $\frac{3}{8}$ -16 x 1.50 Pan Head Tapping	382628-S100	C	Bolt— $\frac{7}{16}$ -20 x 2.25 Pan Head Tapping
C8AB-6260228-A	C	Spacer (0.43)	382382-S100	—	Spacer (0.25)—2 Required
			354959-S	—	Rubber Washer—1 Required
382626-S100	D	Bolt— $\frac{3}{8}$ -16 x 1.50 Pan Head Tapping	382628-S100	C	Bolt— $\frac{7}{16}$ -20 x 2.25 Pan Head Tapping
C8SB-6560228-A	E	Spacer (0.60)	382382-S100	—	Spacer (0.25)—2 Required
			354959-S	—	Rubber Washer—1 Required
382625-S100	E	Bolt— $\frac{3}{8}$ -16 x 2.00 Pan Head Tapping	382628-S100	C	Bolt— $\frac{7}{16}$ -20 x 2.25 Pan Head Tapping
C8UB-82601A76-A	B	Spacer (0.80)	382382-S100	—	Spacer (0.25)—3 Required

① Identification letter on top of bolt head or face of spacer.

R1112-B

FIG. 10—Shoulder Harness Replacement Chart

## PART 41-03 Seat Trim

COMPONENT INDEX Applies To Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continental- Mark III
FRONT SEAT BACK COVER Bench Replacement	03-03												
Bucket and Split- Bench Replacement		03-02	03-02	03-02	03-02	03-02	03-02	N/A	03-02	03-02	03-02	03-02	03-02
FRONT SEAT CENTER ARM REST Bench Replacement		03-03	03-03	03-03	N/A	N/A	N/A	N/A	N/A	03-03	03-03	03-03	03-03
Bucket and Split- Bench Replacement		03-03	03-03	03-03	N/A	N/A	N/A	N/A	N/A	03-03	03-03	03-03	03-03
FRONT SEAT CUSHION COVER Bucket and Split- Bench Replacement		03-01	03-01	03-01	03-01	03-01	03-01	N/A	03-01	03-01	03-01	03-01	03-01
Bench Type Replacement	03-03												
REAR SEAT CUSHION AND BACK Cushion Cover Replacement		03-04											
Back Cover Replacement	03-06												
REAR SEAT CENTER ARM REST COVER REPLACEMENT		03-07	03-07	03-07	N/A	N/A	N/A	N/A	N/A	03-07	03-07	03-07	03-07

A page number indicates that the item is for the vehicle listed at the head of the column.

N/A indicates that the item is not applicable to the vehicle listed.

The following seat trim removal and installation procedures generally apply to all car lines. If some of the steps do not apply to the particular vehicle being serviced, proceed to the next step.

Unless otherwise noted, the illustrations shown in this section are of the Continental Mark III but they are typical of all car lines.

### FRONT SEAT CUSHION COVER—BUCKET AND SPLIT-BENCH TYPE

#### REMOVAL

1. Remove the seat and track assembly from the vehicle. Refer to the procedure in the applicable seat track sections 1 through 5 in Part 41-04.

2. Remove the seat cushion side shield attaching screws and separate the shield from the outboard side of the cushion (Fig. 1). Remove the attaching screws and remove the switch from the side shield. Remove the recliner seat back latch handle.

3. Remove the attaching screws and the rear shield from the armrest assembly (Fig. 1).

4. Remove the screws that attach the armrest assembly to the seat back (Fig. 1).

5. Remove the seat back-to-seat cushion attaching screws and remove the seat back from the seat cushion.

6. Remove the attaching bolts and washers and separate the seat tracks, side shield support and anti-squeaks from the seat cushion (Fig. 17, Part 41-04).

7. Disengage the button assemblies

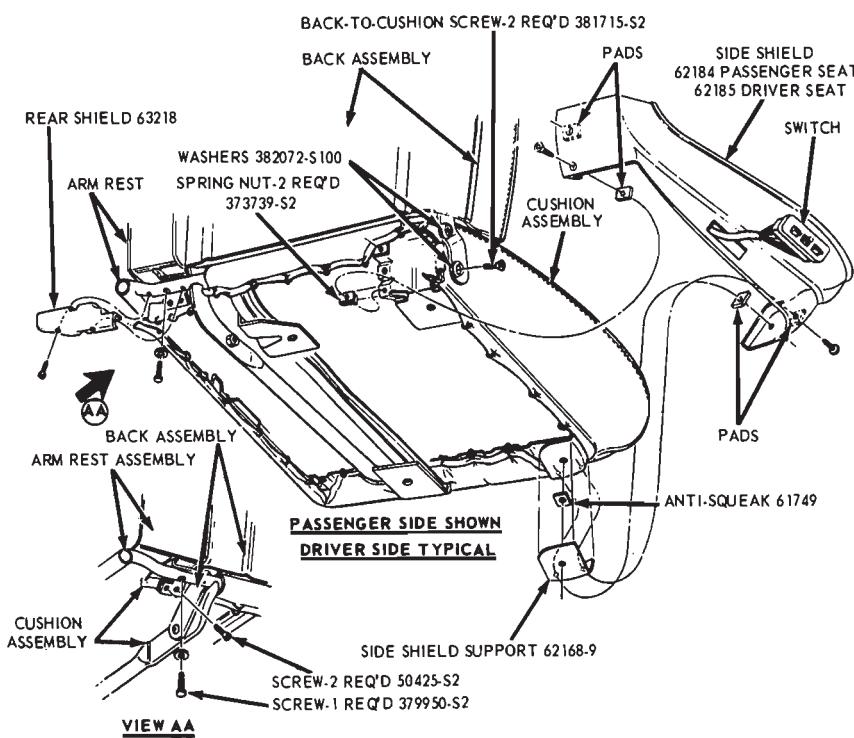
from their respective spring nuts on the underside of the cushion and remove the buttons (Fig. 2).

8. Turn the cushion upside down, and cut the hog rings that retain the cover to the spring assembly at all four sides of the cushion (F, G and H, Fig. 2).

9. Cut the hog rings that retain the cover and the bolster tie-down or listing wire to the spring assembly bolster wire on each side of the cushion (D and E, Fig. 2).

10. Cut the hog rings that retain the cover and the bottom wire to the spring wires at the outboard side of the cushion (View AA, Fig. 2), and remove the cover.

11. If the pad assembly is to be replaced, cut the pad-to-spring assembly bolster wire hog rings and remove the pad (B and C, Fig. 2).



R 1453-A

FIG. 1—Front Seat Back and Armrest-to-Cushion Assembly

**INSTALLATION**

1. If the pad assembly is to be replaced, transfer the border wire filler to the new pad and install the new pad assembly. Turn the cushion upside down and secure the pad to each spring assembly bolster wire with hog rings (B and C, Fig. 2).

2. Transfer all bolster tie-down wires to their listings in the new cover assembly.

3. With the seat upright, position the cover over the pad and spring assembly and tuck the bolster wire listings into their respective bolster depressions. Then turn the cushion upside down and fold the ends of the cover into position for installing the hog rings.

4. Fasten the cover and the bottom wire to the spring wires at the outboard side of the cushion with hog rings (View AA, Fig. 2).

5. Fasten the cover and the bolster tie-down or listing wire to the spring assembly bolster wire at each side of the cushion. Use hog rings at each bolster wire (D and E, Fig. 2).

6. Fasten the cover to all four sides of the spring assembly. Start at the center and install hog rings alternately toward the corners about four inches apart (F, G, and H, Fig. 2).

7. Insert the two button assemblies through the cover at the upper side of the cushion and fasten them in place by installing a spring nut to each button at the underside of the cushion (Fig. 2).

8. With the cushion upside down on a bench, position an anti-squeak on all four track mounting points (Fig. 18). Position the side shield support over the anti-squeak at the front outboard mounting point and, then, place another anti-squeak on top of the side shield support.

9. Position the track assembly to the seat cushion with the five antisqueaks and one side shield support between track and cushion as shown in (Fig. 17, Part 41-04). Install the four track-to-cushion attaching screws and washers, and torque as indicated in the applicable seat track section 1 through 5 in Part 41-04.

10. Assemble the seat back to the seat cushion and install the four attaching screws (Fig. 1).

11. Assemble the armrest to the seat back (Fig. 1).

12. Assemble the rear shield to the armrest with two attaching screws (Fig. 1).

13. Assemble the motor switch to the side shield and secure with attaching screws. Install the shield assembly

to the outboard side of the seat cushion and install the attaching screws (Fig. 1). Install the recliner seat back latch handle.

14. Install the seat and track assembly in the vehicle. Refer to the applicable seat track section 1 through in Part 41-04.

**FRONT SEAT BACK COVER—BUCKET AND SPLIT BENCH TYPE****REMOVAL**

1. Remove the seat and track assembly from the vehicle and remove the seat back from the cushion as described in steps 1 through 5 under REMOVAL in the foregoing procedure.

2. Unsnap the trim panel (retained by trim clips) from the seat back or from the shield and moulding assembly (Fig. 3).

3. Remove the escutcheon and retaining screw and then, remove the latch handle and washer from the seat back latch.

4. Remove the retaining screws and remove the shield and moulding assembly from the seat back.

5. Disengage the buttons from their respective spring nuts on the rear side of the seat back assembly and remove the buttons (Fig. 4).

6. Turn the assembly rear side up and cut the hog rings that retain the cover and the top, side, and bottom wires to the spring assembly along all four sides (F, G and H, Fig. 4).

7. Cut the hog rings that retain the cover and the upper and lower bolster tie-down wires to the spring assembly bolster wires (D and E, Fig. 4).

8. Remove the cover.

9. If the pad is to be replaced, cut the hog rings that retain the pad assembly to the spring assembly bolster wires (C, Fig. 4), and remove the pad. Since the rear pad is cemented to the spring assembly, it should be pulled off.

**INSTALLATION**

1. If the pad assembly is being replaced, transfer the border wire filler to the new pad and position the new pad assembly to the front side of the seat back. Turn the seat back assembly rear side up and secure the pad to the spring assembly bolster wires with hog rings (C, Fig. 4). If the rear pad was removed, secure it in place with C2AZ-19C525-A adhesive.

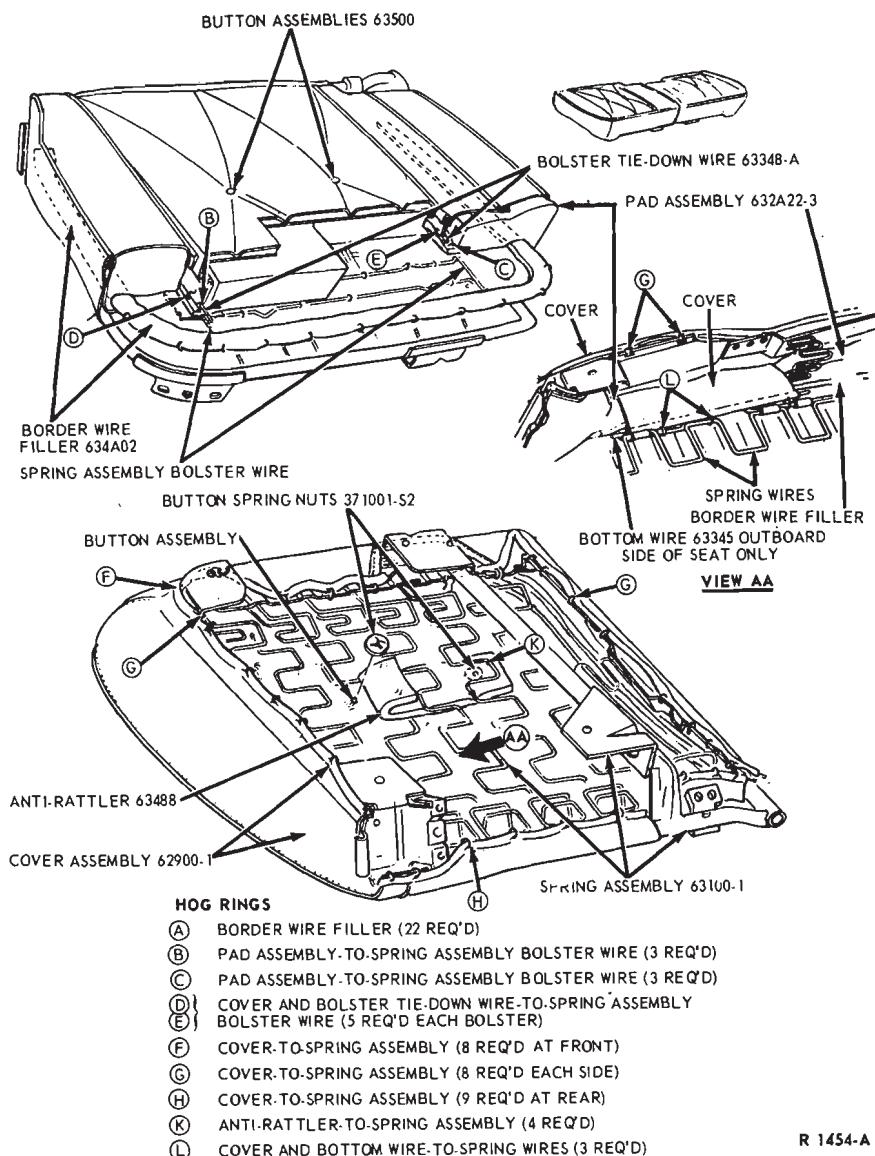


FIG. 2—Front Seat Cushion Cover Installation—Bucket and Split Bench

#### FRONT SEAT CUSHION COVER—BENCH TYPE

Remove the seat and track assembly from the vehicle as outlined in the applicable seat section 1 through 5 in Part 41-04. Remove the seat back from the cushion. To replace the cushion cover, follow the cushion cover removal and installation procedures under Rear Seat Cushion and Back in this section (Fig. 7).

#### FRONT SEAT BACK COVER—BENCH TYPE

Remove the seat and track assembly from the vehicle as outlined in the applicable seat section 1 through 5 in Part 41-04. Remove the seat back from the cushion. To replace the seat

back cover follow the seat back cover removal and installation procedures under Rear Seat Cushion and Back in this section (Fig. 8).

#### FRONT SEAT CENTER ARMREST—BUCKET AND SPLIT BENCH TYPE

##### REMOVAL AND INSTALLATION FROM VEHICLE

Remove the seat and track assembly from the vehicle as outlined in the applicable seat section 1 through 5 in Part 41-04. Remove the seat back from the seat cushion.

The armrest cover and the lower end of the flap assembly is attached to the rear end of the armrest assem-

bly by a retainer (Fig. 5). Remove the retaining screws and the retainer assembly. The flap assembly can now be turned up to allow access to the link and support assembly upper retaining screws. Remove the link and support assembly upper and lower retaining screws and remove the assembly from the seat back.

When installing the assembly to the seat back, position the screw holes in the upper end of the flap to the corresponding holes in the upper end of the link and support assembly and install the upper retaining screws (Fig. 5). Install the link and support assembly lower retaining screws and then, position the lower end of the flap to the armrest. Secure the cover and flap to the armrest by installing the cover retainer.

#### REMOVAL AND INSTALLATION OF COVER

Disengage the cover from the retaining tabs (View AA, Fig. 5) and remove the cover from the armrest assembly.

If the pad is to be replaced, pull the old pad from the base assembly and cement the new pad to the base with C2AZ-19C525-A adhesive.

Slip the new cover over the pad and base assembly and secure it to the retaining tabs.

#### FRONT SEAT CENTER ARMREST—BENCH TYPE

Remove the seat and track assembly from the vehicle and remove the seat back from the seat cushion as outlined in the applicable seat section 1 through 5 in Part 41-04.

To remove the armrest from the seat back and replace the cover, follow the procedures under Rear Seat Armrest in this section.

#### REAR SEAT CUSHION AND BACK

##### REMOVAL FROM VEHICLE

1. Lift the front edge of the rear seat cushion and pull the cushion forward. Then, remove the cushion from the vehicle.

2. Remove one of the rear quarter armrests (Part 47-02).

3. Remove the seat back lower retaining screws (Fig. 6).

4. Push the seat back down to disengage the hanger wire from the retainer brackets and remove the seat back from the vehicle.

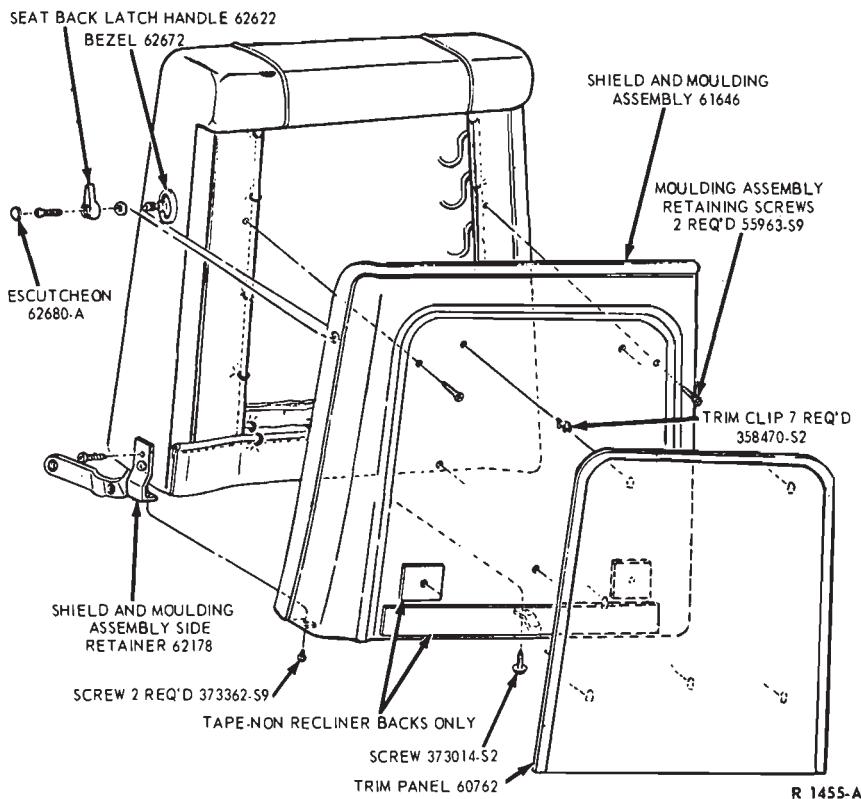


FIG. 3—Front Seat Back Trim Installation

## INSTALLATION IN VEHICLE

1. Position the seat back in the vehicle so that the hanger wire is under the retaining brackets (Fig. 6).
2. Lift on the bottom edge of the seat back to force the hanger wire under the retaining brackets.
3. Install the seat back lower retaining screws (Fig. 6).
4. Position the seat cushion in the vehicle.
5. Push the seat cushion rearward and down to lock the cushion in position.
6. Install the rear quarter armrest.

## CUSHION COVER

### Removal

1. Remove the rear seat cushion from the vehicle.
2. Disengage the button assemblies from their respective spring nuts on the underside of the cushion and remove the buttons (Fig. 7).
3. With the cushion upside down on a bench, cut the hog rings that retain the cover assembly to the spring assembly along all four sides (E, F and G, Fig. 7).
4. Cut the hog rings that retain the

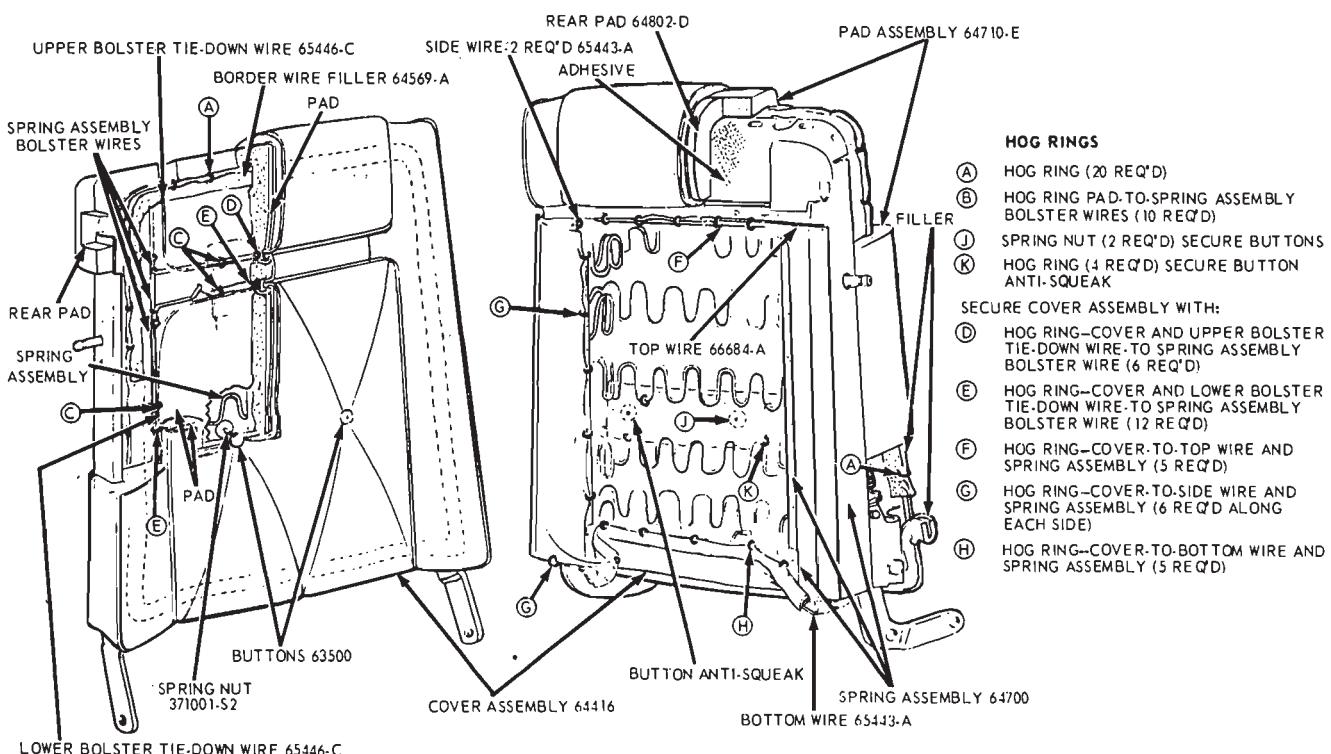
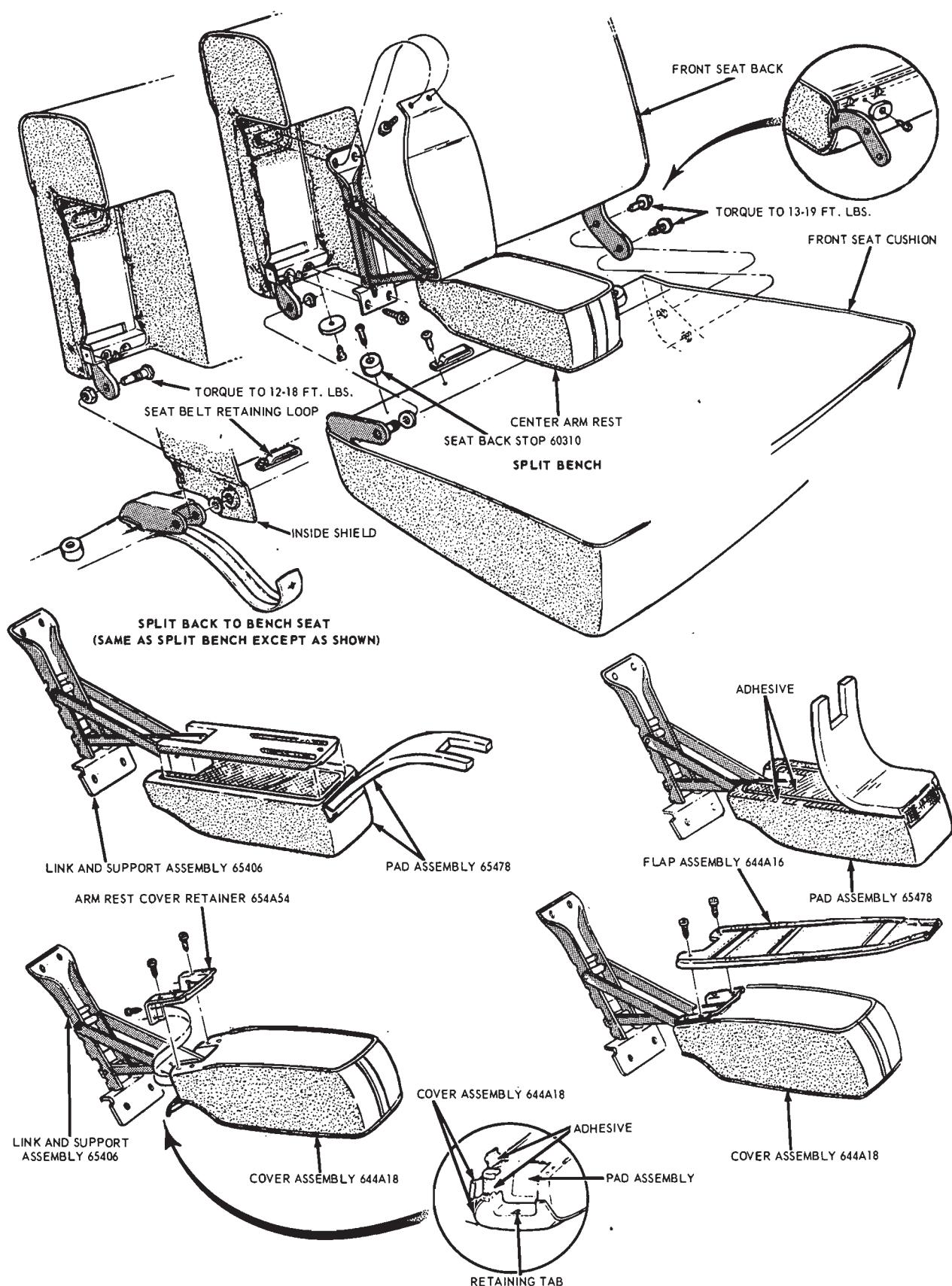
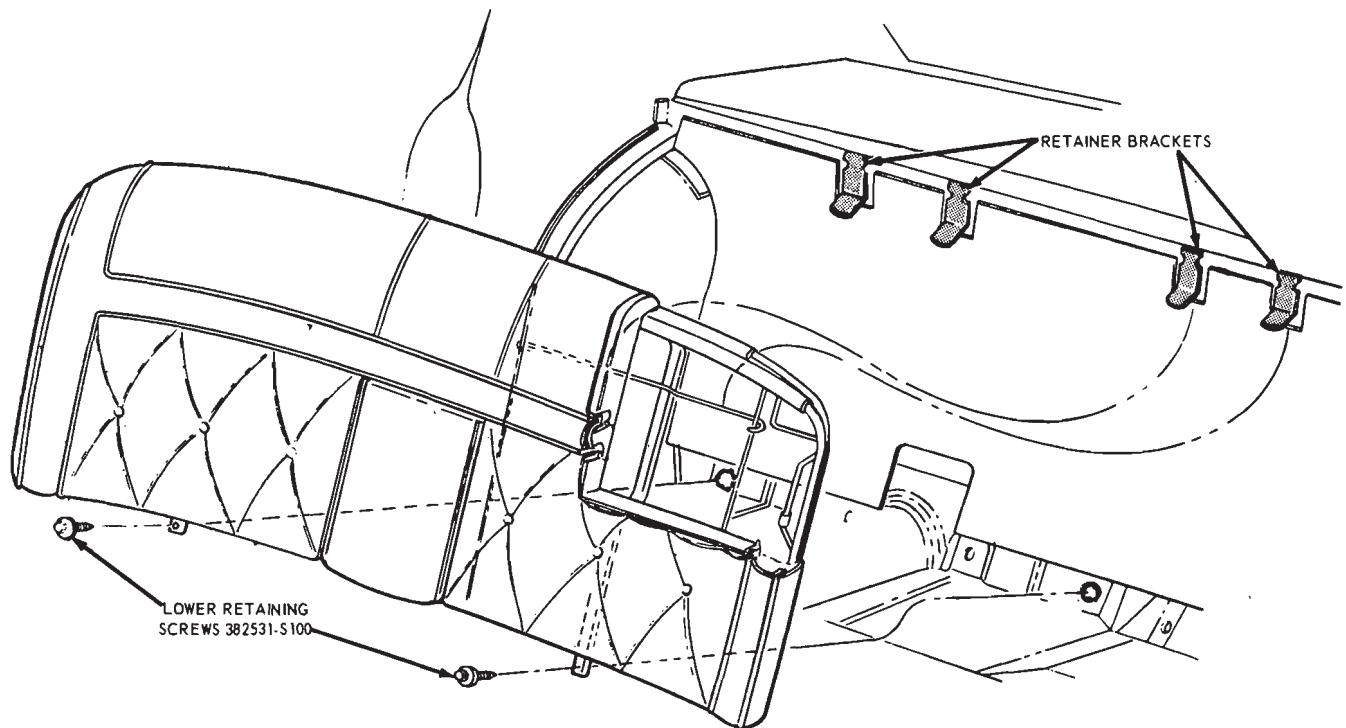


FIG. 4—Front Seat Back Cover Installation—Bucket and Split Bench



R 1107-B

FIG. 5—Typical Front Seat Center Armrest—Bucket and Split Bench Type—Ford, Meteor and Mercury Shown



R 1457-A

FIG. 6—Rear Seat Back Installation

cover and the bolster tie-down or listing wires to the spring assembly bolster wires. There are hog rings at each of the bolster tie-down wires (D, Fig. 7).

5. Remove the cover from the cushion assembly

#### Installation

1. If the pad assembly is being replaced, transfer the border wire filler (Fig. 7) to the new pad and position the pad on the cushion spring assembly. Turn the assembly upside down and fasten the new pad to the spring assembly bolster wires (K, Fig. 7).

2. Transfer all bolster tie-down wires (outboard and center) to their respective listings in the new cover assembly.

3. Position the cover over the pad and cushion assembly, tuck the bolster wire listings into their respective bolster depressions, and turn the cushion assembly upside down.

4. Fasten the cover and bolster tie-down wires to the spring assembly bolster wires along each of the bolster tie-down wires (D, Fig. 7).

5. Fasten the cover to the four sides of the spring assembly with hog rings (E, F and G, Fig. 7).

6. Insert the button assemblies

through the cover at the upper side of the cushion and fasten them in place by installing a spring nut to each button at the underside of the cushion (Fig. 7).

7. Install the rear seat cushion in the vehicle.

#### SEAT BACK COVER

##### Removal

1. Remove the rear seat cushion and rear seat back assembly from the vehicle, and remove the center armrest (if so equipped) from the rear seat back as outlined in the Removal procedure under Rear Seat Center Armrest in this section (Figs. 6 and 9).

2. Disengage the button assemblies from their respective spring nuts on the rear side of the seat back and remove the buttons (Fig. 8).

3. With the front side down on a bench, cut the hog rings that retain the cover to the spring assembly along all four sides (G, E and F, Fig. 8).

4. Cut the hog rings that retain the cover and upper and lower listing wires to the upper and lower bolster wires respectively (H and J, Fig. 8).

5. Remove the cover from the seat

back assembly.

6. If the pad assembly is being replaced, remove the hog rings that fasten the pad along the top of the seat back spring assembly (D, Fig. 8), and then remove the pad-to-upper and lower bolster wires (C and S, Fig. 8). Remove the pad from the seat back.

##### Installation

1. If the pad is being replaced, install the new pad to the seat back and turn the assembly front side down. Fasten the pad to the upper and lower bolster wires with hog rings (C and S, Fig. 8). Fasten the upper edge of the pad to the spring assembly along the top of the seat back with hog rings (D, Fig. 8).

2. Transfer the upper, lower and bottom listing wires to their respective listings in the new cover assembly.

3. With the seat back assembly front side up, position the cover over the pad and spring assembly and tuck the upper and lower listings into their respective bolster depressions. Then, turn the assembly over and fold the edges of the cover around the edges of the seat frame assembly in position for installing the hog rings.

4. Fasten the cover and the upper and lower listing wires to the upper

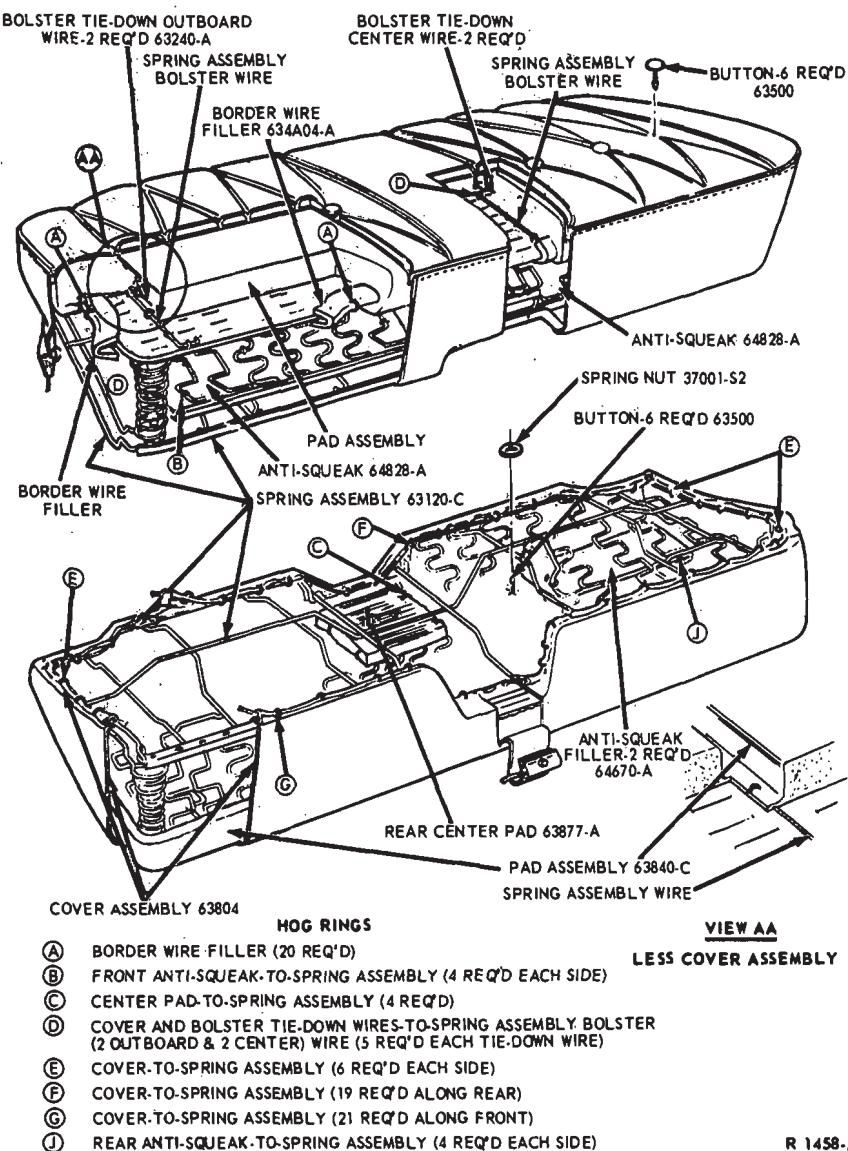


FIG. 7—Rear Seat Cushion Cover Installation—Typical of Front Bench Type

and lower bolster wires respectively with hog rings (H and J, Fig. 8).

5. Fasten the cover all around the outer edges of the spring assembly with hog rings (E, F and G, Fig.

6. Insert the button assemblies through the cover at the front side of the seat back and fasten them in place by installing a spring nut to each button at the rear side of the seat back (Fig. 8).

7. Install the center armrest to the rear seat back, and install the rear seat back assembly and rear seat cushion in the vehicle as outlined in the Installation procedure under Rear Seat Center Armrest in this section

(Figs. 6 and 9).

#### REAR SEAT CENTER ARMREST

##### REMOVAL OF UNIT FROM VEHICLE

1. Remove the rear seat cushion and rear seat back assembly from the vehicle as outlined in this section (Fig. 6).

2. Cut the retaining hog rings and remove the rear cover from the armrest opening in the seat back (Fig. 9).

3. Cut the three hog rings that attach the armrest flap to the rear seat back (Fig. 9).

4. Remove the four bolts that attach the armrest link and vertical strainer assembly to the rear seat back (Fig. 9).

5. Remove the center armrest assembly from the rear seat back.

#### INSTALLATION OF UNIT IN VEHICLE

1. Assemble the center armrest to the rear seat back and install the four vertical strainer-to-seat back attaching screws (Fig. 9).

2. Fasten the armrest flap to the rear seat back with three hog rings as shown in Fig. 9.

3. Position the rear cover to the armrest opening in the rear seat back and fasten the cover to the seat back with four hog rings (Fig. 9).

4. Install the rear seat back assembly and the rear seat cushion in the vehicle as outlined in the foregoing procedure (Fig. 6).

#### COVER REMOVAL

1. Remove the rear seat cushion and rear seat back assembly from the vehicle, and remove the center armrest from the rear seat back as outlined in the foregoing procedures.

2. Remove the retaining screw and washer assemblies and separate the link and vertical strainer assembly from the armrest base assembly (Fig. 10).

3. Remove the flap-to-armrest staples and the cover-to-armrest staples (Fig. 10). Slip the cover off the pad and base assembly.

#### COVER INSTALLATION

1. If the pad is to be replaced pull the old pad from the base assembly and cement the new pad to the base with C2AZ-19C525-A adhesive.

2. Slip the cover over the pad and base assembly and install the cover-to-armrest staples. Fasten the flap to the armrest with staples (Fig. 10).

3. Assemble the link and vertical strainer assembly to the base assembly with the screw and washer assemblies (Fig. 10).

4. Install the center armrest to the rear seat back and install the rear seat back assembly and rear seat cushion in the vehicle as outlined in the foregoing procedures.

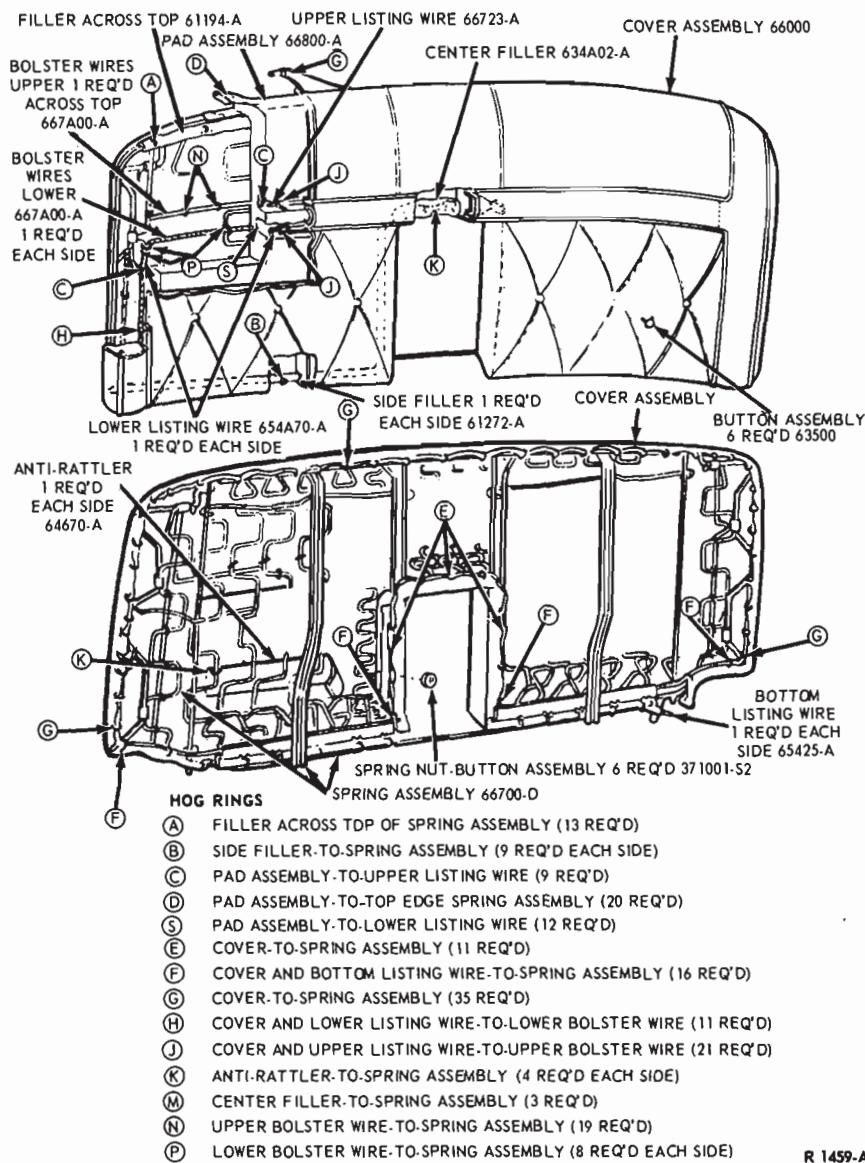
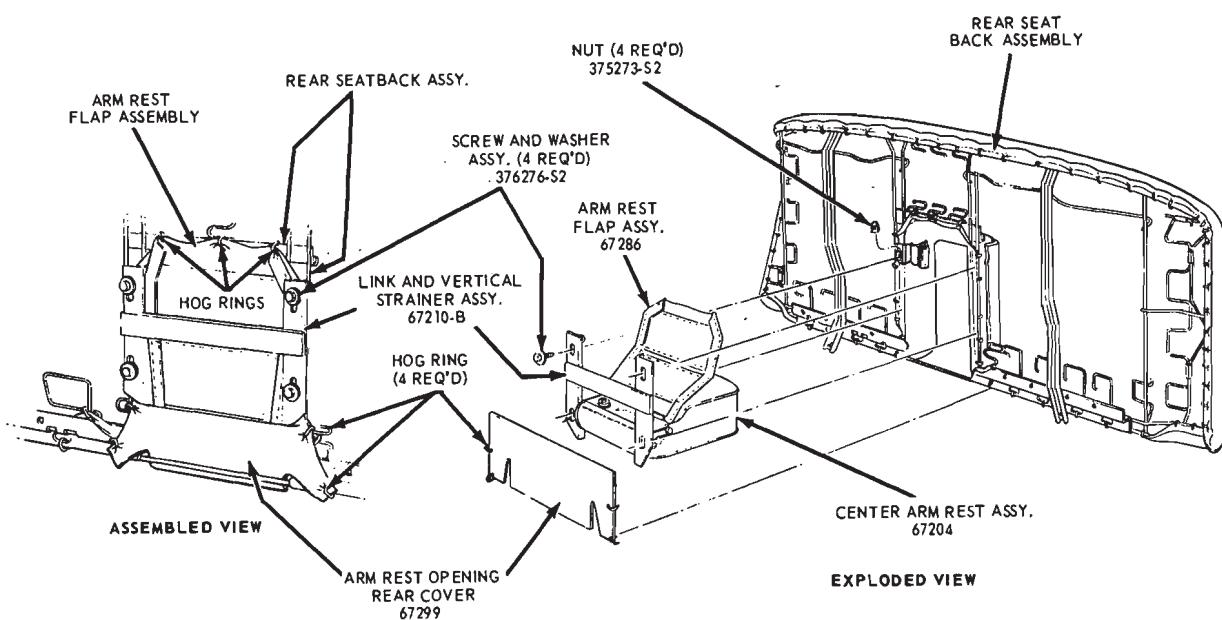
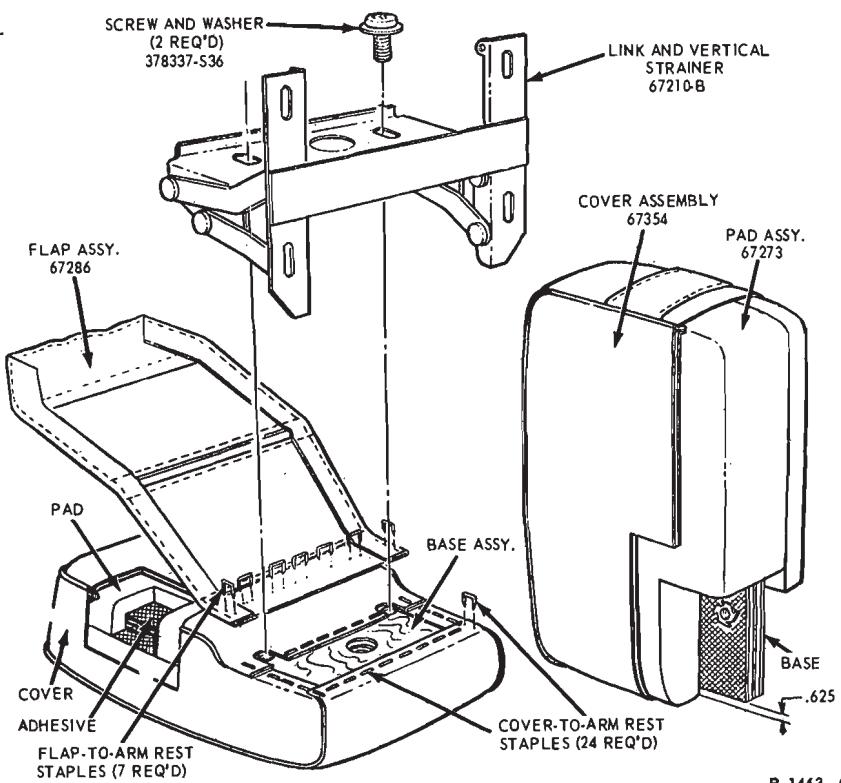


FIG. 8—Rear Seat Back Cover Installation—Typical of Front Bench Type



R 1462-A

FIG. 9—Rear Seat Center Armrest-to-Seat Back Installation—Typical of Front Bench Type



R 1463-A

FIG. 10—Rear Seat Center Armrest Cover Installation—Typical of Front Bench Type

## PART 41-04 Seat Tracks

COMPONENT INDEX Applies To Models As Indicated	All Models	Ford	Mercury	Meteor	Cougar	Fairlane	Falcon	Maverick	Montego	Mustang	Lincoln- Continental	Thunderbird	Continenta- Mark III
<b>MANUAL SEATS</b>													
Removal and Installation													
Bench Seat		04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02	04-02	N/A	04-02	N/A
Bucket Seat		04-01	04-01	04-01	04-01	04-01	04-01	N/A	04-01	04-01	N/A	04-01	N/A
Split Bench Seat		04-02	04-02	04-02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tie Rod Adjustment	04-01												
<b>POWER SEATS</b>													
Four Way—Description and Operation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-11	N/A	N/A	N/A	N/A
Four Way—Removal and Installation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-11	N/A	N/A	N/A	N/A
Six Way—Description and Operation		04-05	04-05	04-05	N/A	N/A	N/A	N/A	N/A	N/A	04-05	04-05	04-05
Six Way—Removal and Installation													
Cable and Housing		02-07	02-07	02-07	N/A	N/A	N/A	N/A	N/A	02-07	02-07	02-07	
Cable and Motor		02-07	02-07	02-07	N/A	N/A	N/A	N/A	N/A	N/A	02-07	02-07	02-07
Motor—Bench Seat		02-07	02-07	02-07	N/A	N/A	N/A	N/A	N/A	N/A	02-07	02-07	02-07
Motor—Bucket Seat		02-07	02-07	02-07	N/A	N/A	N/A	N/A	N/A	N/A	02-07	02-07	02-07
Seat and/or Track		04-06	02-06	02-06	N/A	N/A	N/A	N/A	N/A	N/A	02-06	02-06	02-06
Two Way—Description and Operation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-10
Two Way—Removal and Installation													
Motor—Bucket Seat		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-10
Motor and Cable		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-10
Seat and/or Track Transmission and Rack		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	02-10
A page number indicates that the item is for the vehicle listed at the head of the column.													
N/A indicates that the item is not applicable to the vehicle listed.													

### 1 MANUAL SEATS

#### MANUAL SEAT TRACK TIE ROD ADJUSTMENT

Tie rod adjustment will affect only the passenger side of the seat. In case the latch retaining the track fails to release, turn the adjusting turnbuckle (Figs. 1 through 5) clockwise enough to shorten the tie rod travel and release the track latch. If the latch fails to secure the seat travel, turn the adjusting turnbuckle counterclockwise enough to allow the latch to snap into locking position.

#### BUCKET TYPE—ALL EXCEPT CONTINENTAL MARK III AND LINCOLN CONTINENTAL

The seat is mounted in the conven-

tional manner on two seat tracks.

The seat release is located at the lower front center of the seat, and is operated by pulling the lever sideways to release the seat tracks.

The seat track assembly is easily replaced if the seat assembly is removed from the vehicle.

1. Remove 4 floor pan plug buttons to gain access to the seat track retaining nuts (Mustang and Cougar only).

2. From under the vehicle, remove the seat track retaining stud nuts and washers. Remove the seat assembly from the vehicle and place it on a clean work area.

3. Remove the screws which retain the seat track assembly to the seat cushion and remove the seat track as-

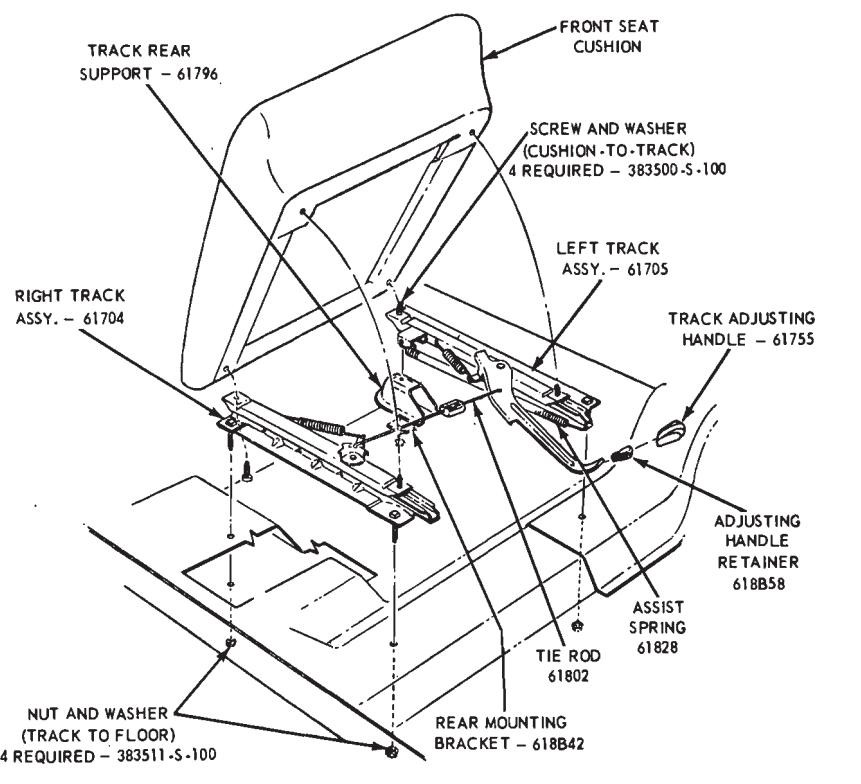
sembly (Figs. 1 and 2).

4. If the track is being replaced, disconnect the latch tie rod from the old track. Connect the tie rod to the new seat track. Lubricate the tracks with COAZ 19584-A lubricant.

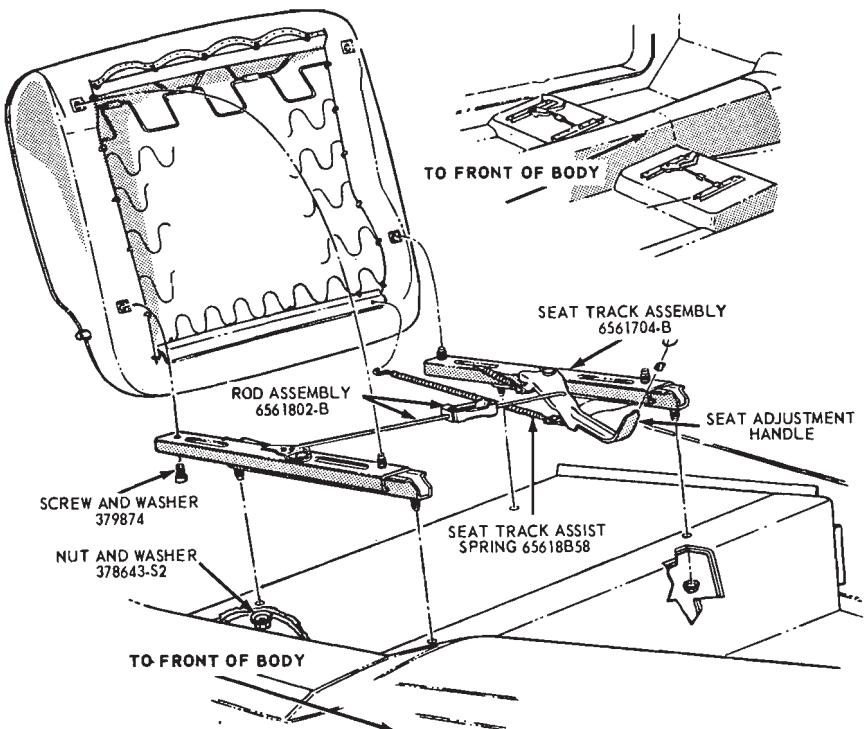
5. Loosely install the track-to-floor retaining studs in the seat track.

6. Place the seat track assembly on the seat cushion, and install the retaining screws. Torque the screws as follows: Thunderbird—12-25 ft-lbs; all other car lines—7-17 ft-lbs.

7. Place the seat assembly in the vehicle and install the washers and nuts on the retaining studs. Torque the nuts as follows: Thunderbird—12-25 ft-lbs; all other car lines—7-17 ft-lbs.



**FIG. 1—Bucket Seat Installation—Falcon, Fairlane, Montego Shown  
Others Typical**



**FIG. 2—Bucket Seat Installation—Mustang and Cougar**

8. Install the floor pan plug buttons (Mustang and Cougar only).

#### SPLIT BENCH TYPE—FORD, METEOR, MERCURY

##### REMOVAL

1. Remove six plug buttons from the underside of the vehicle and remove six seat track retaining nuts (Fig. 3). Lift the seat and seat track assembly from the vehicle.

2. Place the seat and seat track assembly on a bench and disconnect the adjusting springs (Fig. 3).

3. Remove four seat track-to-seat cushion attaching screws, and remove the seat cushion from the seat tracks.

4. Disconnect the latch tie rod from the seat tracks and remove the spacers and anti-squeak from the seat.

##### INSTALLATION

1. Position the anti-squeak and spacers to the seat cushion (Fig. 3).

2. Connect the latch tie-rod to the seat tracks, and position the seat tracks to the seat cushion.

3. Install the four seat track-to-seat cushion attaching screws and torque to 7-17 ft-lbs.

4. Connect the adjusting springs between the seat tracks and the seat cushion (Fig. 3).

5. Position the seat and seat track assembly in the vehicle.

6. Install the six seat track retaining nuts and torque to 7-17 ft-lbs. Install the six plug buttons in the openings on the underside of the vehicle.

#### BENCH TYPE—ALL EXCEPT CONTINENTAL MARK III AND LINCOLN CONTINENTAL

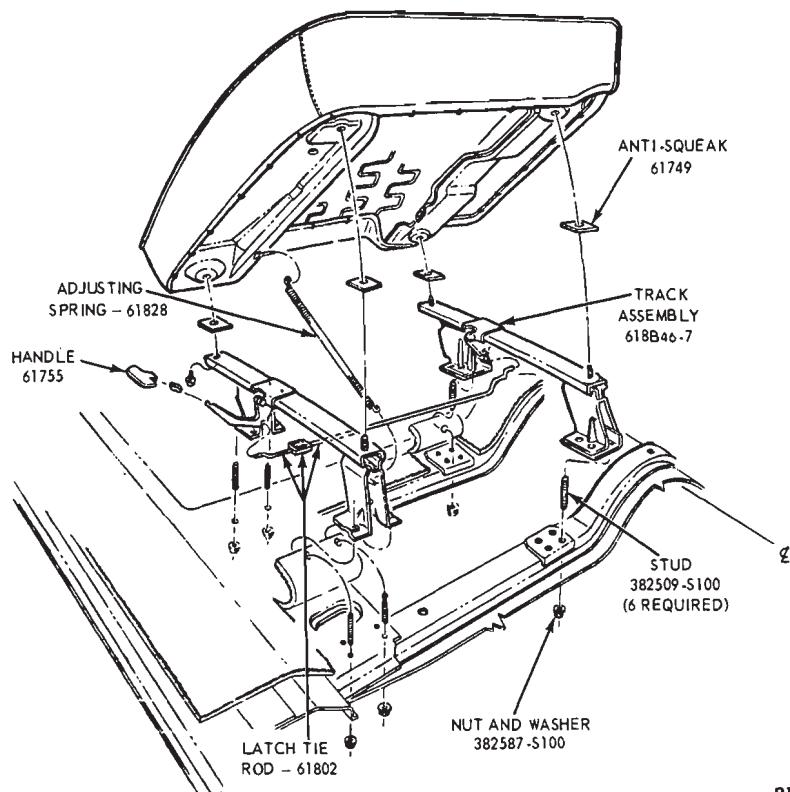
##### REMOVAL

1. From the underside of the vehicle remove the nuts that retain the seat track to the floor pan (Figs. 4 and 5).

2. Remove the seat assembly from the vehicle and place it in a clean working area.

3. Unhook the latch tie rod from the seat frame, remove the screws which retain the seat track assembly to the seat cushion, and remove the seat track assembly.

4. If the seat tracks are being replaced, transfer the retracting springs and adjusting lever knob to the new track assembly.



R1310-C

FIG. 3—Split Bench Seat and Track Installation

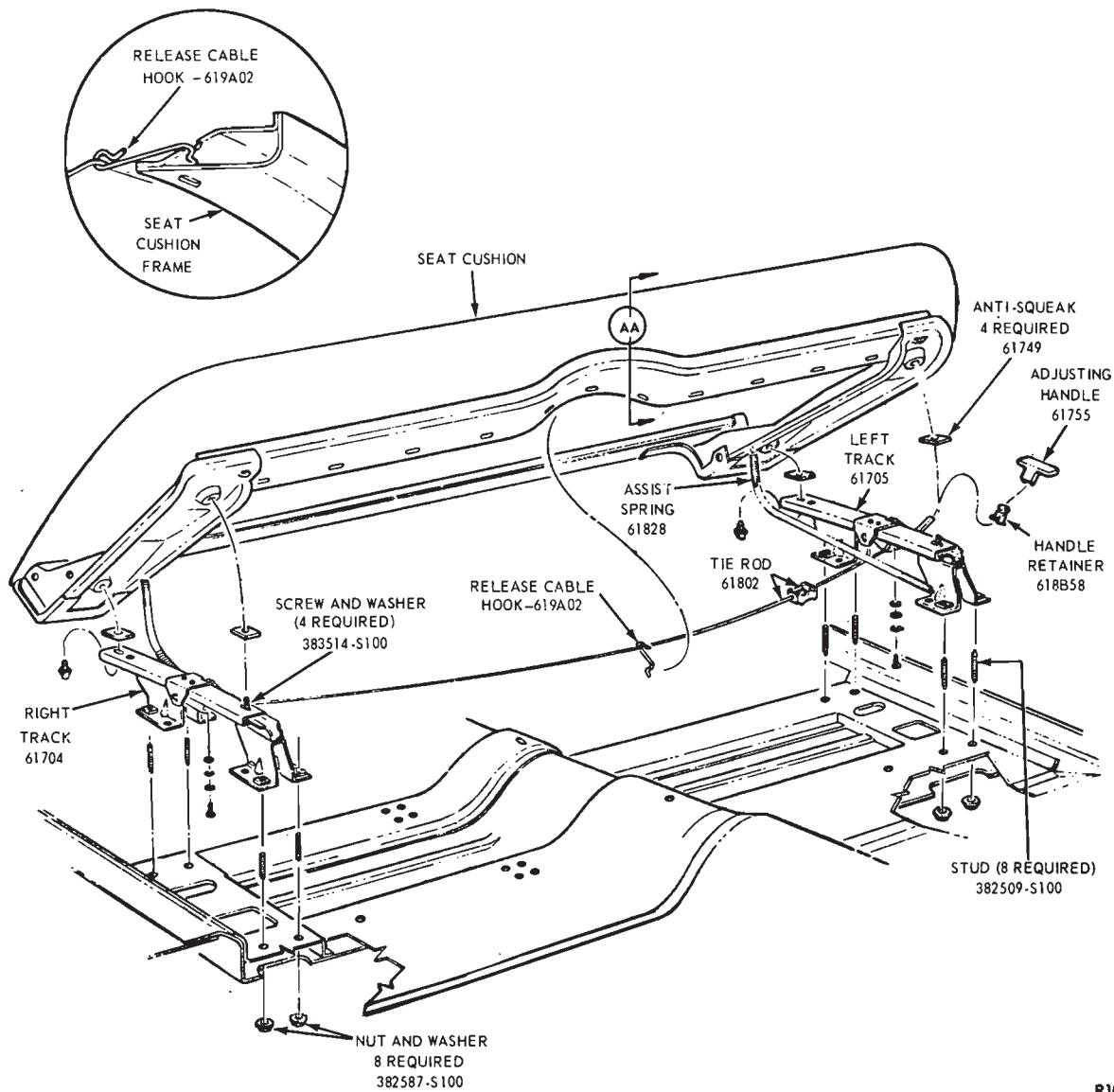
**INSTALLATION**

**1.** Mount the seat tracks with side shield supports and anti-squeaks to the seat cushion, and connect the tie rod to the two tracks as they are being positioned (Figs. 4 and 5).

**2.** Install the four seat track-to-seat cushion retaining screws and torque the screws as follows: Thunderbird—12-25 ft-lbs; and all the other carlines—7-17 ft-lbs.

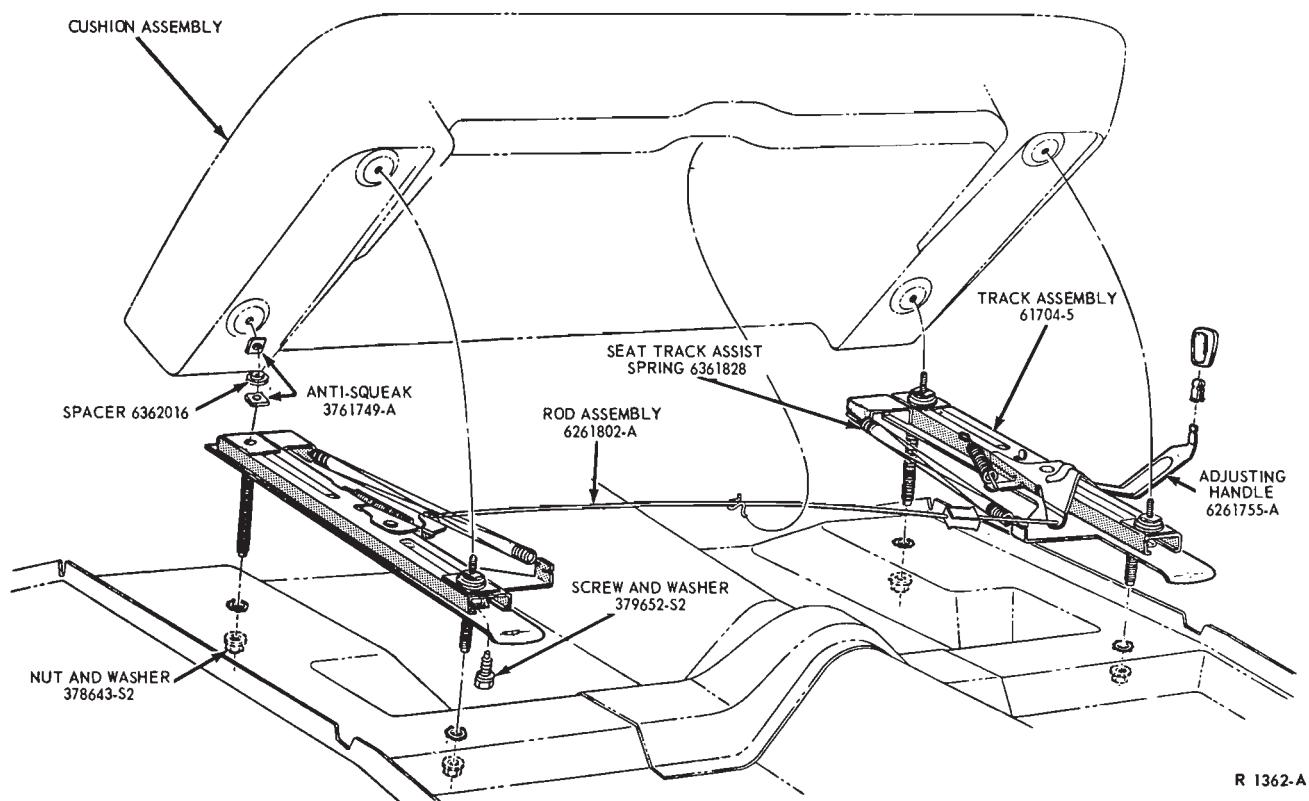
**3.** Engage the tie rod to the hook on the seat frame.

**4.** Install the seat assembly in the vehicle so that the seat track studs enter the holes in the floor pan. From the underside of the vehicle, install the seat track-to-floor pan retaining nut and washer assemblies. Torque the nuts as follows: Ford, Meteor, and Mercury (8 required) 7-22 ft-lbs; Falcon, and Fairlane (4 required) 7-17 ft-lbs; Montego (4 required) 9-25 ft-lbs; Thunderbird (4 required) 12-25 ft-lbs.



R1034-D

FIG. 4—Bench Seat Track—Ford, Meteor and Mercury



**FIG. 5—Bench Seat Track—Falcon, Fairlane, Montego Shown Thunderbird Typical**

## **2 SIX-WAY POWER SEATS—FORD, METEOR, MERCURY, THUNDERBIRD, CONTINENTAL MARK III AND LINCOLN CONTINENTAL**

Three variations of the six-way power seat are available in these car lines: bucket-type for Ford, Meteor, Mercury and Thunderbird; split-bench type for Ford, Meteor, Mercury and Continental Mark III and Lincoln Continental; and bench-type for Ford, Meteor, Mercury and Lincoln Continental. All three types are basically the same.

### **DESCRIPTION AND OPERATION**

The six way power seat (Fig. 6) provides horizontal, vertical and vertical tilt adjustments. It consists of a reversible three armature motor (TRI-MOTOR), a switch and housing assembly, vertical worm gear drives and horizontal rack and pinion drives.

The control switches are mounted on the seat outboard (bench seat left)

side shields(s). The forward switch controls the vertical tilt of the front portion of the seat, the rear switch controls the vertical tilt of the rear portion of the seat, and the center switch controls both horizontal and vertical movement of the seat.

The mechanical portion of the seat track in the horizontal drive consists of a rack and pinion on each track. The pinion housing and motor is attached to the movable section of the track. When the center switch is actuated forward or rearward, the center armature is energized and the horizontal drive units are activated. The seat is then propelled forward or rearward by the pinion gears traveling in a rack in each lower track section.

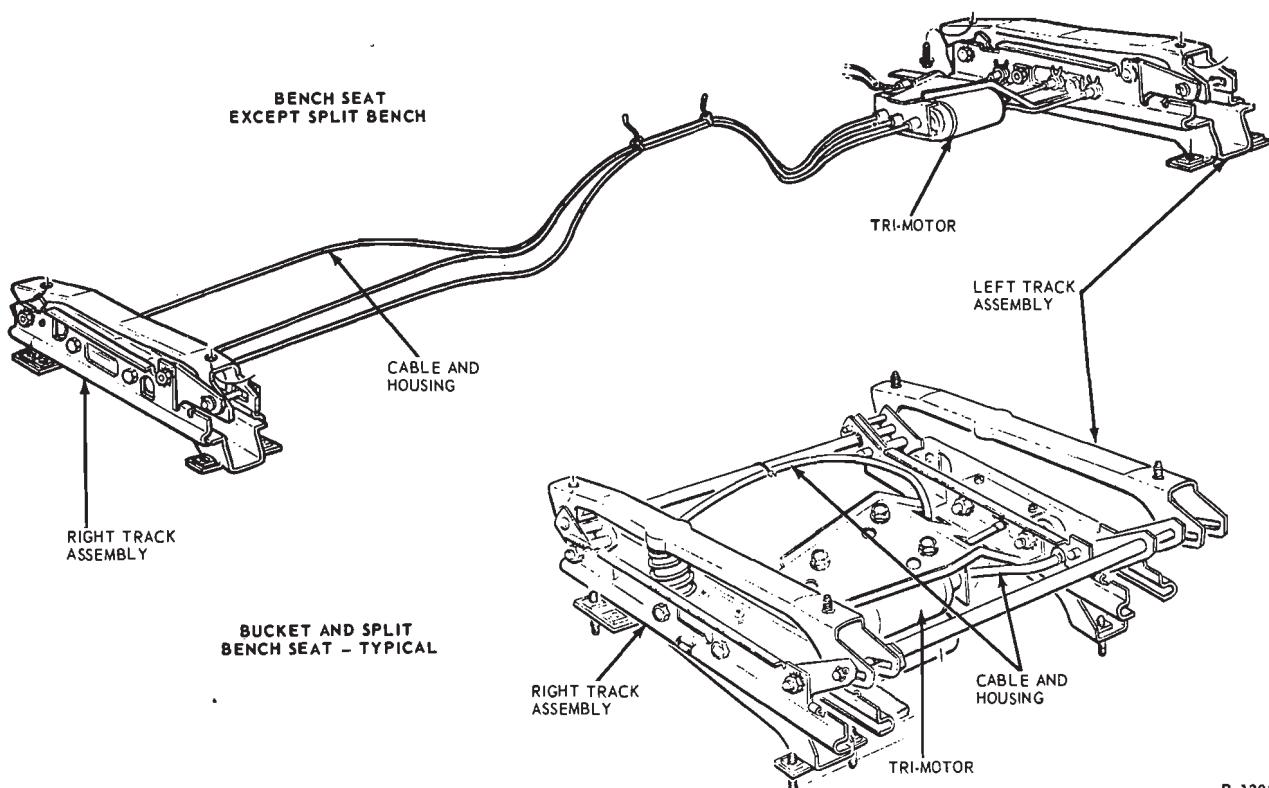
In the vertical drive, worm gear mechanisms are utilized. The drive units are located in the rear of the right track and in the front of the left

track. When the center switch is actuated up or down, the front and rear armatures are energized simultaneously and the vertical drive units are activated. The seat is then propelled up or down by the worm gears.

When the front tilt switch is actuated, the front armature drives the front vertical worm gear and moves the seat to the desired position. When the rear tilt switch is actuated, the rear armature drives the rear vertical worm gear and moves the seat to the desired position.

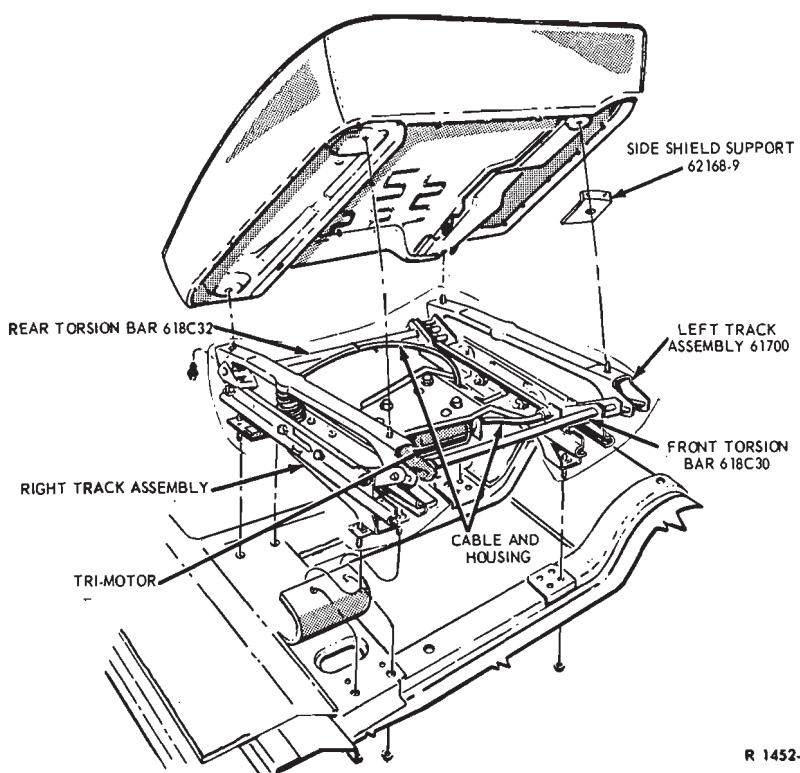
The power seat circuit is protected by a 30 amp circuit breaker mounted on the starter solenoid.

Both the horizontal and vertical drive units are serviceable individually. The motor assembly which contains three armatures is serviced only as an assembly. The flexible shafts are serviced individually and can be



R 1305-B

FIG. 6—Typical Six-Way Power Seat Tracks



R 1452-A

FIG. 7—Thunderbird and Continental Mark III Six-Way Power Seat—Typical of Others

removed by removing the securing corbin clamps.

The switch and housing assembly is serviceable as a complete assembly. The wiring harness should not be disassembled from the switch, it should be disconnected only at the power source.

## REMOVAL AND INSTALLATION

### SEAT AND/OR TRACK ASSEMBLY

#### Removal

1. Remove the nuts and washers retaining the seat track assembly to the floor pan (Figs. 6 and 7).

2. Lift the seat up enough to disconnect the seat motor wires. Then, remove the seat and track assembly from the vehicle.

3. Place the seat upside down on a clean bench and disconnect the switch wires at the connectors.

4. Remove the shield from the outboard side of the seat cushion.

5. Remove two bolts attaching each track to the seat frame and remove the track assembly from the seat.

SIX-WAY POWER SEAT TRACK TORQUES IN FT. LBS.			
SEAT TRACK TO CUSHION SCREWS			
CAR LINE	BENCH	BUCKET	SPLIT BENCH
FORD, METEOR, MERCURY	12-20	7-17	12-20
THUNDERBIRD	-	12-25	-
CONTINENTAL MARK III	-	-	12-25
LINCOLN CONTINENTAL	7-17	-	7-17
SEAT TRACK TO FLOOR PAN NUTS			
CAR LINE	BENCH	BUCKET	SPLIT BENCH
FORD, METEOR, MERCURY	9-15	12-25	9-15
THUNDERBIRD	-	22-40	-
CONTINENTAL MARK III	-	-	22-40
LINCOLN CONTINENTAL	20-30	-	20-30

R 1105-C

FIG. 8—Six-Way Power Seat Track Torque Specifications

**Installation**

1. Position the track assembly to the seat cushion. With a Thunderbird or Continental Mark III track, install the anti-squeaks and side shield support between the track and cushion (Fig. 7).

2. Install the four track-to-cushion attaching screws and washers and torque as indicated in Fig. 8. To be sure that the two tracks are mounted in parallel, move the caged nut at the right front corner so that the distance between the tracks at the front equals that at the rear. Measurement should be made between the track base channels.

3. Install the side shield to the seat cushion.

4. Connect the switch wires to the track assembly at the connectors.

5. Position the seat and track assembly in the vehicle and connect the wires at the connector.

6. Install the seat track-to-floor pan retaining nuts and torque the nuts as indicated in Fig. 8.

**MOTOR AND DRIVE CABLES****Removal**

1. Remove nuts and washers re-

taining the seat track to the floor pan (Figs. 6 and 7).

2. Lift the seat and disconnect the seat motor wires. Then, remove the seat and seat track from the vehicle.

3. Remove three motor assembly to mounting bracket attaching bolts.

4. Remove the clamps retaining the drive cables to the seat tracks. Then, open the wire retaining straps and remove the motor assembly and cables from the seat track assembly.

5. Remove the cable retaining brackets and remove the drive cables from the motor assembly.

**Installation**

1. Position the cables and retaining brackets to the motor and install the retaining screws.

2. Position the cables to the seat tracks and the motor to the mounting bracket.

3. Install the three motor-to-mounting bracket attaching bolts.

4. Install the clamps retaining the drive cables to the seat tracks.

5. Insert the motor wire in the wire straps and connect the wire at the connector.

6. Position the seat and track in the vehicle and connect the wires.

7. Install the seat track-to-floor

pan retaining nuts and washers and torque as indicated in Fig. 10.

8. Check the operation of the seat.

**RIGHT OR LEFT TRACK****Removal**

1. Remove nuts and washers retaining the seat track to the floor pan (Fig. 7).

2. Lift the seat up enough to disconnect the seat motor wires. Then, remove the seat and track assembly from the vehicle.

3. Remove the right and left cushion side shields from the seat cushion.

4. Remove the retaining clamps and disconnect the drive cables from the seat tracks.

5. If the motor mounting bracket is attached to the track being replaced, remove the bracket-to-track screws and remove the bracket, motor and drive cables as an assembly. If the motor mounting bracket is not attached to the track being replaced, remove the three motor-to-mounting bracket screws and remove the motor and drive cables as an assembly.

6. On bucket and split-bench seats only, remove the cotter keys and pivot pins that attach the front and rear torsion bars to the front and rear ends of each track respectively and remove the front and rear torsion bars.

7. Remove the track-to-seat cushion frame attaching bolts and remove the track.

**Installation**

1. Position the side shield support and then the replacement track to the seat frame (Fig. 7). Install the attaching bolts and washers and torque as indicated in Fig. 8.

2. On bucket and split-bench seats only, assemble the rear torsion bar to the rear end of each track and the front torsion bar to the front end of each track with pivot pins and cotter keys.

3. If the motor mounting bracket was attached to the track that was replaced, position the bracket, motor and drive cable assembly to the track and install the two bracket-to-track screws; otherwise, position the motor and drive cables and install the three motor-to-bracket screws.

4. Connect the drive cables to the tracks and install the retaining clamps.

5. Install the right and left cushion side shields.

6. Position the seat and track assembly into the vehicle and connect the motor wires.
7. Install the four seat track-to-floor pan retaining nuts and washers and torque as indicated in Fig. 8.

### TRACK COMPONENTS

To replace any component part of a seat track, remove the track as outlined under Removal in the foregoing procedure and disassemble the track as far as required to replace the damaged part.

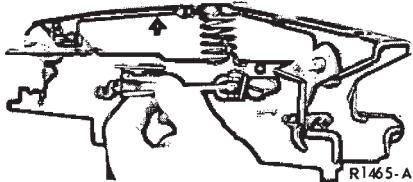


FIG. 9—Turning Vertical Transmission to Up Position

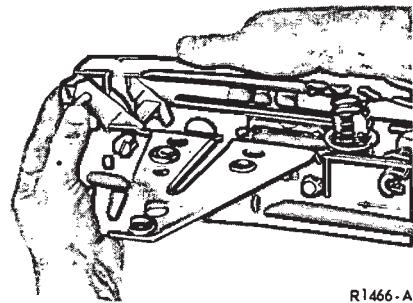


FIG. 10—Removing the Upper Channel

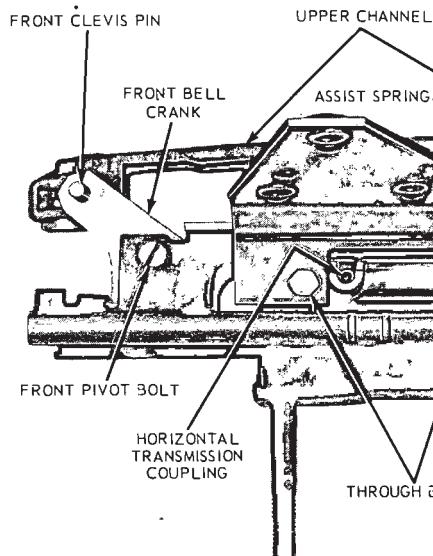


FIG. 11—Primary Track Assembly—Continental Mark III, Typical of All

lined under Removal in the foregoing procedure and disassemble the track as far as required to replace the damaged part.

On each power seat assembly, only one track uses a vertical assist spring and cup assembly and is equipped with reinforcements at the base channels; also, the motor and mounting bracket is bolted to this track which, for the sake of distinction, is referred to as the primary track. The opposite track is referred to as the secondary track.

On Continental Mark III vehicles, the right track is the primary track. On all other vehicles, the left track is the primary track.

The illustrations used in the following procedures show the Continental Mark III primary (outboard) track on the passenger seat, but they are typical of both primary and secondary tracks on all of these car lines.

The vertical transmission is mounted at the rear end of a primary track but at the front end of a secondary track.

### Disassembly

1. The track upper channel must be in the full up position to provide clearance for removing both clevis pins. If the channel is not in the up position, insert the square end of the drive cable into the vertical transmission coupling and turn counterclock-

wise (Fig. 9). If the vertical transmission is inoperative, insert the cable into the horizontal transmission coupling and turn counterclockwise to the full forward position (Fig. 11).

2. With a primary track, hold the upper channel against the vertical assist spring while removing the front clevis pin (Fig. 10). Gradually release the pressure on the spring to allow the channel to swing up slowly, and then remove the rear clevis pin, upper channel and the assist spring and cup assembly (Fig. 11).

With a secondary track, remove the two clevis pins and then remove the upper channel.

3. Remove the roll pin from the rear end of the two side rails as shown in Fig. 12, and remove the front and rear pivot bolts and nuts.

4. With a primary track, remove the two through bolts and nuts that retain the horizontal transmission and motor mounting bracket to the side rails and remove the bracket (Fig. 11). Spread the side rails apart slightly and first slide the outer side rail (Fig. 12) forward and off the base channel assembly. Lift the transmission carriage and transmission assembly out of the base channel, and then lift the inner side rail from the base channel assembly.

With a secondary track, remove the two through bolts and nuts and the two side rails. Lift the transmission and carriage assembly out of the base channel.

5. Lift the horizontal transmission from the carriage, and turn the bell crank off the vertical transmission drive screw (Fig. 13).

6. If either transmission is binding or inoperative, remove the cover(s) and replace damaged parts as required (Fig. 13). If necessary, the vertical transmission can be separated from the carriage by removing the roll pin.

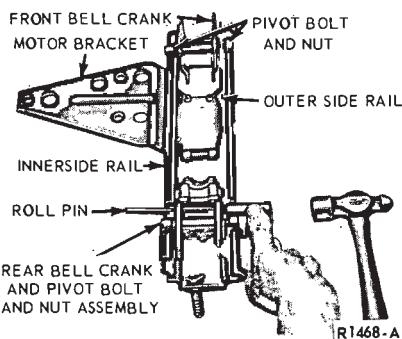
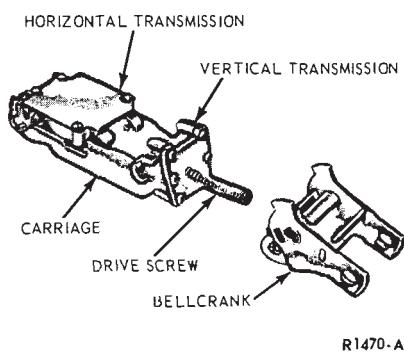
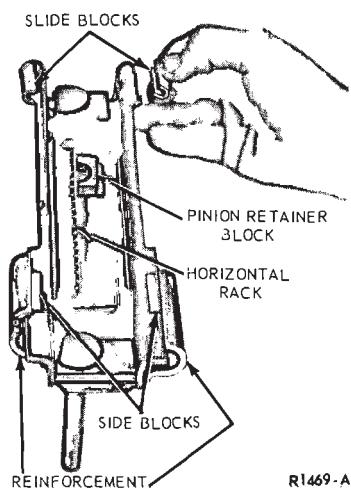


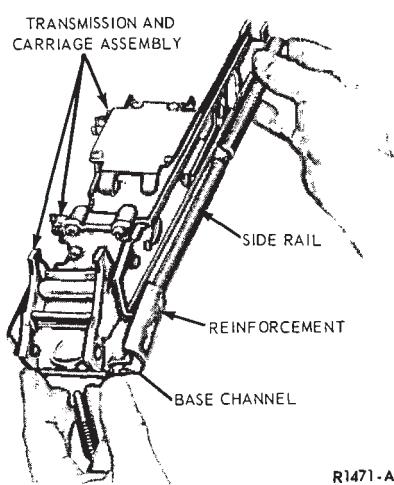
FIG. 12—Disassembling Primary Track—Secondary Typical



**FIG. 13—Transmission Carriage Assembly**



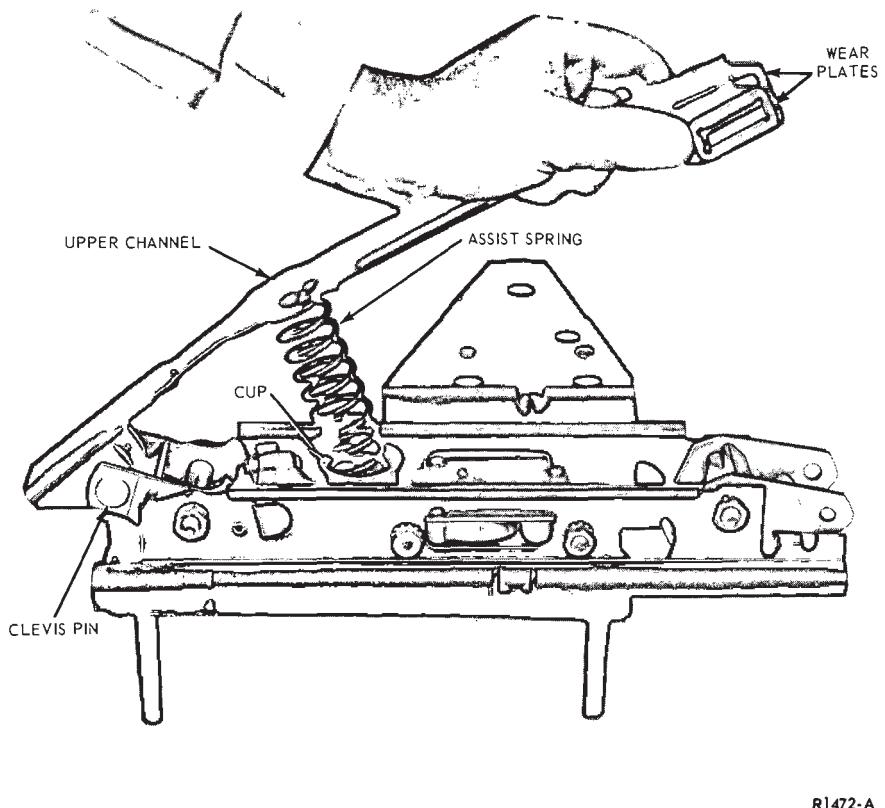
**FIG. 14—Base Channel Assembly**



**FIG. 15—Installing Outer Side Rail on Base Channel—Primary Track**

### Assembly

1. Install the bellcrank to the vertical transmission by turning it onto the left hand threaded drive



**FIG. 16—Installing Upper Channel and Assist Spring**

screw (Fig. 13). If the vertical transmission was removed or is being replaced, mount the new transmission to the carriage by installing the roll pin.

2. Install the horizontal transmission to the carriage.

3. Properly position the four horizontal slide blocks and the pinion retainer block on the base channel as shown in Fig. 14. The ridges on the blocks should index with the grooves on the channel.

4. Install the transmission and carriage assembly to the base channel making sure that the horizontal pinion engages with the horizontal rack and is retained by the retainer block.

5. With a primary track, first slide the outer side rail onto the base channel so that the rear end of the rail goes between the reinforcement and the channel as shown in Fig. 15. Then, slide the inner side rail onto the base channel with the rear end entering between the reinforcement and channel in the same manner.

Since the secondary track has no reinforcements on the base channel, the two side rails can be mounted to the base channel simultaneously.

6. Install the two through bolts and nuts that hold the motor bracket (pri-

mary track), the horizontal transmission, and side rails together (Fig. 11).

7. Install the roll pin at the rear end of the two side rails (Fig. 12).

8. Install the (front on primary track, rear on secondary track) bellcrank between the side rails and secure with the pivot bolt and nut. Swing the opposite bellcrank (connected to vertical drive screw) into alignment with the bolt holes and install the pivot bolt and nut (Fig. 12).

9. Assemble the rear end of the upper channel to the rear bellcrank and install the clevis pin (Fig. 16).

10. With a primary track, install the vertical assist spring and cup assembly in the transmission carriage. The boss on the cup should enter the hole in the bottom of the carriage. Install the wear plates one on each side of the forward end of the upper channel. Be sure that the upper end of the spring fits into the spring seat in the upper channel, force the channel down against the spring and secure the forward end to the front bellcrank with the clevis pin (Figs. 11 and 16).

With an inboard track, install the wear plates and connect the forward end of the upper channel to the front bellcrank with a clevis pin.

### 3 TWO-WAY POWER SEAT—CONTINENTAL MARK III

#### DESCRIPTION AND OPERATION

Each two-way power seat is adjusted forward or backward in a horizontal plane by a single electric motor. Flexible drive shafts connect the right and left ends of the motor shaft to a transmission and horizontal rack on the right and left seat tracks respectively (Fig. 17). Electrical current is fed to the motor through a toggle switch located on the seat outboard side shield. The switch controls the direction of seat track travel by controlling the direction of motor shaft rotation.

The electrical system is protected against an overloaded circuit by a 30 amp. circuit breaker mounted on the instrument panel almost directly in front of the glove box opening. The circuit breaker can be reached by opening the glove box door and removing the glove box filler.

#### REMOVAL AND INSTALLATION

##### SEAT AND/OR TRACK ASSEMBLY

###### Removal

1. Remove the four nuts and washers retaining the seat track assembly to the floor pan (Fig. 17).
2. Lift the seat up enough to disconnect the seat motor wires. Then, remove the seat and track assembly from the vehicle.
3. Remove the seat side shield.
4. Release the drive cable tube clamp and disconnect the drive cable from each transmission assembly.
5. Remove the two attaching bolts from each transmission assembly and disengage the transmissions from the track assembly. The tracks will now move freely and permit access to the seat cushion-to-track attaching bolts.
6. Remove the seat cushion-to-track attaching bolts and remove the track assembly from the cushion.

###### Installation

1. Position the track assembly to the seat cushion with the five anti-squeak pads and one side shield support placed between the track and cushion. Install the attaching bolts and torque to 12-25 ft-lbs (Fig. 17).

2. Engage the two transmissions to the track assembly and secure each transmission to its track with two attaching bolts. Be sure that the pinion bushing, spacer and spring clip are properly positioned as shown in Fig. 17.

3. Connect the drive cables to their proper transmission assemblies and install the retaining clamps.

4. Install the seat side shield to the outboard side of the cushion.

5. Install the seat and track assembly into the vehicle and connect the seat motor wires.

6. Install the four seat track-to-floor pan retaining nuts and washers and torque to 12-25 ft-lbs.

#### MOTOR AND DRIVE CABLES

###### Removal

1. Remove the four seat track-to-floor pan retaining nuts and washers, disconnect the seat motor wires, and then remove the seat and track assembly from the vehicle (Fig. 17).

2. Release the drive cable tube clamp and disconnect the drive cable

from each transmission assembly.

3. Remove the two motor-to-mounting bracket attaching screws and remove the motor and drive cables from the track assembly.

4. Remove the drive cable retaining bracket from the right end of the motor and disconnect the drive cable assemblies from the motor.

5. Pull the drive cables out of the cable tubes.

#### Installation

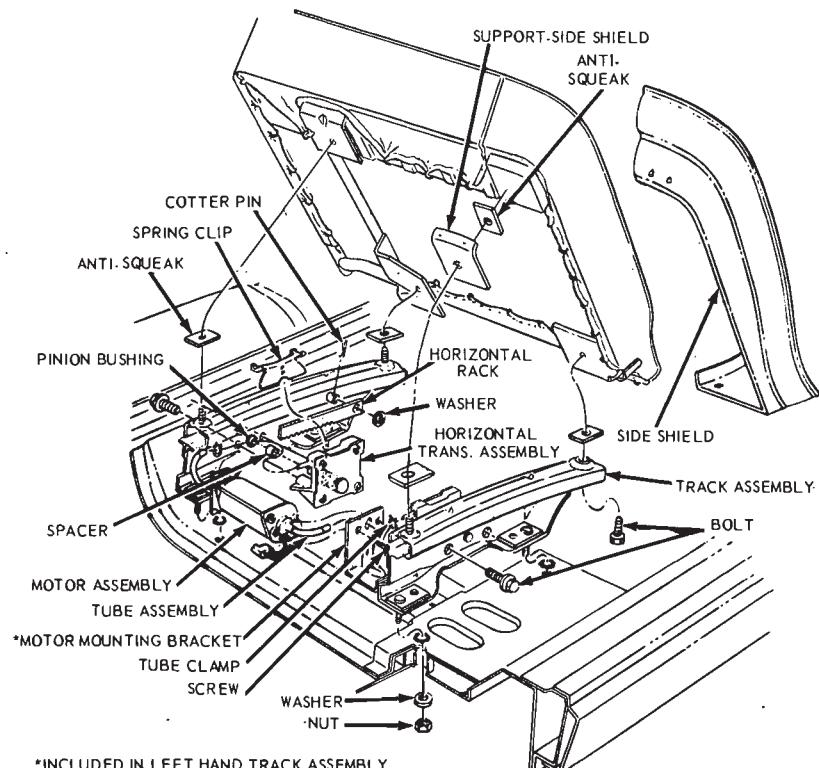
1. Insert the drive cables into the cable tubes (Fig. 17).

2. Connect the drive cable assemblies to the motor and install the drive cable retaining bracket to the right end of the motor.

3. Position the motor and drive cable assembly to the seat track assembly and secure the motor to its mounting bracket with two attaching screws.

4. Connect the drive cables to their proper transmission assemblies and install the retaining clamps.

5. Install the seat and track assembly into the vehicle, connect the seat



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FIG. 17—Two-Way Power Seat Track—Continental Mark III

motor wires, and install the seat track-to-floor pan retaining nuts and washers. Torque the nuts to 12-25 ft-lbs.

### TRANSMISSION AND RACK ASSEMBLY

#### Removal

1. Remove the four seat track-to-floor pan retaining nuts and washers, disconnect the seat motor wires, and then remove the seat and track assembly from the vehicle (Fig. 17).

2. Release the drive cable tube

clamp and disconnect the drive cable from the transmission assembly to be removed.

3. Remove the two mounting bolts from the transmission assembly and remove the transmission, spacer, pinion bushing and spring clip.

4. Remove the cotter pin and washer retaining the rack to be replaced and remove the rack from its seat track.

#### Installation

1. Install the rack to its seat track and secure the washer and cotter pin

(Fig. 17).

2. Install the transmission to the track making sure that the pinion bushing, spacer, and spring clip are properly positioned as shown in Fig. 17. Install the two transmission mounting bolts.

3. Connect the drive cable to the transmission and install the cable tube retaining clamp.

4. Install the seat and track assembly into the vehicle, connect the seat motor wires, and install the seat track-to-floor pan retaining nuts and washers. Torque the nuts to 12-25 ft-lbs.

## 4 FOUR-WAY POWER SEAT—MONTEGO

### DESCRIPTION AND OPERATION

The four-way power seat mechanism provides forward and rearward adjustment of the seat assembly; also, up and down (tilting) movement for the front of the seat. The seat tracks are driven by a single reversible motor which transmits its power through an electrically controlled transmission and three flexible drive cables. A four-way switch is located on the left side of the seat and track assembly. This switch directs power to the motor and transmission solenoids through two relays.

The solenoids engage the drive cables which, in turn, drive the seat tracks in the direction selected by the driver. The front solenoid (blue wire) engages the horizontal drive cables. The rear solenoid (white wire) engages the vertical drive assembly.

Both the control and power circuits are protected by a 20-ampere circuit breaker which is mounted on the starting motor relay in the engine compartment.

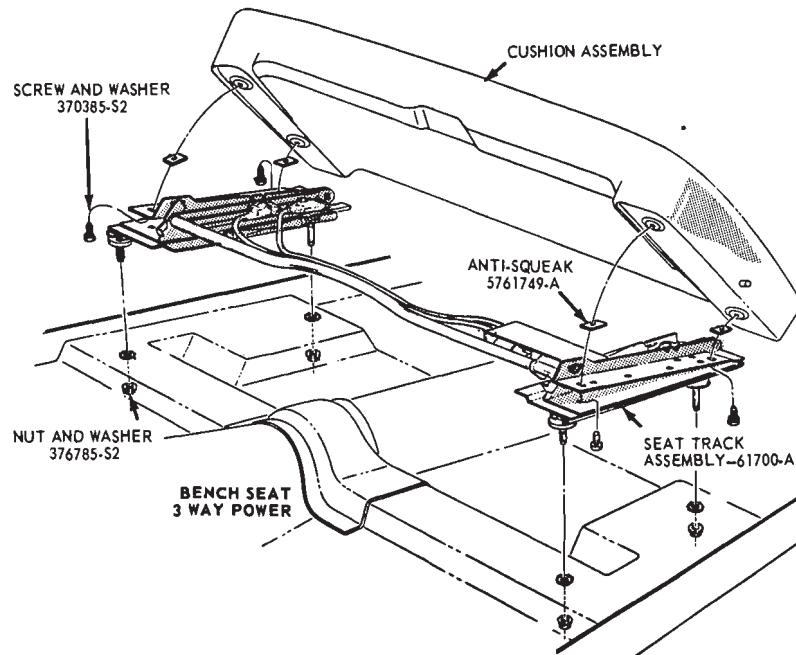
### REMOVAL AND INSTALLATION

#### BENCH SEAT TRACK—POWER—MONTEGO

##### Removal

1. Remove the retaining bolts from the two inboard seat belts at the tunnel.

2. Remove the four seat track retaining nuts. Disconnect the seat wiring loom at the quick disconnect and



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FIG. 18—Power Seat Track—Bench—Montego

remove the seat assembly from the vehicle (Fig. 18).

3. Remove the four retaining screws from the cushion assembly to the seat track.

4. Disconnect the wires leading from the seat control switch assembly at the quick disconnect and separate the cushion assembly from the seat track.

5. Release the tension on the assist springs on the seat track assembly.

6. Remove the six screws retaining the three drive units to the track assembly and separate the units from

the track.

7. Remove the relays from their brackets.

8. Remove the two nuts retaining the motor to its bracket and remove the motor.

9. Remove the two screws retaining the transmission assembly to its bracket and disconnect the wires to the transmission and remove the transmission.

##### Installation

1. Position the transmission assem-

bly to its seat track bracket and install the two retaining screws. Connect the wires at the quick disconnect.

2. Position the motor to its bracket and install the two retaining nuts.

3. Position the three drive units on the seat track assembly and install the six retaining screws.

4. Install the relays in their brackets.

5. Install the assist springs on the seat tracks.

6. Connect the control switch quick disconnect and position the cushion assembly to the seat track and install the four retaining screws. Torque to 7-17 ft-lbs.

7. Place the assembled seat in the vehicle.

8. Connect the wires at the quick disconnect and install the four seat

track retaining nuts. Torque to 9-25 ft-lbs.

9. Check the operation of the seat.

#### POWER SEAT MOTOR—BENCH—MONTEGO

##### Removal

1. Remove the four seat retaining nuts and disconnect the main wiring loom, disconnect and tilt the seat assembly backwards.

2. Disconnect the two push-on connectors at the seat track transmission assembly. Remove the two bolts retaining the transmission to the bracket and position the transmission and drive block to the side.

3. Disconnect the plugs to the motor assembly. Remove the two

nuts retaining the motor to the mounting bracket and remove the motor.

##### Installation

1. Position the motor to the mounting bracket and install the two retaining nuts. Connect the plugs to the motor assembly.

2. Position the transmission and drive block to the motor and bracket and install the two retaining bolts. Connect the two push-on connectors.

3. Connect the main wiring loom connector. Position the seat assembly to the floor and install the four retaining nuts. Torque to 9-25 ft-lbs.

4. Check the operation of the seat. this section.